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# A REVIEW OF THE WORK OF THE UNITED STATES PUBLIC HEALTH SERVICE IN INVESTIGATIONS OF STREAM POL-LUTION 1

By W. H. Frost, Surgeon, United States Public Health Service, in Charge of Stream Pollution Investigations

In March, 1901, Congress provided for the erection of a laboratory by the United States Public Health Service "for the investigation of infectious and contagious diseases and matters pertaining to the public health," and in the same year a division of scientific research was organized in the Bureau of the Public Health Service. the year 1901 may be said to mark the establishment of systematic and continued scientific investigation as a recognized function of the Public Health Service. Considering the rôle which sewage-polluted drinking water was playing at that time in the spread of typhoid fever and other infectious diseases, and recalling that the membership of the Hygienic Laboratory Advisory Board included the great leader in sanitary science, Prof. William T. Sedgwick, it was inevitable that attention should have been directed at once to the importance of comprehensive studies of stream pollution in relation to disease. That this was true is evidenced by frequently recurring references in the annual reports of the director of the Hygienic Laboratory during its early years, but the number of other urgent problems was so great and the resources of the laboratory were so limited that for several years work in this field was of necessity limited to occasional studies of local water supplies, undertaken usually in connection with investigations into the causes of the epidemic or endemic prevalence of typhoid fever in various localities.

In 1910 the first systematic investigation of the status and effects of sewage pollution in any large area was begun by the assignment of A. J. McLaughlin, surgeon, United States Public Health Service,

<sup>&</sup>lt;sup>1</sup> Editorial note: This is one of four papers of a symposium on stream pollution presented at the meeting of the sanitary engineering division of the American Society of Civil Engineers at Cincinnati, Ohio, April 23, 1925, and published in the Proceedings, Vol. LI, No. 9, November, 1925. The other papers, which will appear in early issues of Public Health Reports and will later be combined with the present article and issued in pamphlet form, are as follows: "The rate of deoxygenation of polluted waters," by Emery J. Theriault; "The rate of atmospheric reacration of sewage-polluted streams," by H. W. Streeter; and "Quantitative studies of bacterial pollution and natural purification in the Ohio and Illinois Rivers," by J. K. Hoskins.

to make a survey of cities in the Great Lakes region, with instructions to investigate the extent of the pollution of their water supplies and its relation to the prevalence of typhoid fever and other water-borne diseases, and to examine State and municipal ordinances relating to its control. Upon the completion of these surveys and of the reports thereon, which were published as bulletins of the Hygienic Laboratory, Doctor McLaughlin was assigned, by request of the health authorities of States bordering on the Missouri River, to make a survey of the sewage pollution of that stream. In this work, which was carried out during the summer of 1912, Doctor McLaughlin for the first time had the assistance of another officer of the service and was enabled, through the cooperation of the health authorities of the States concerned and of certain cities on the river, to establish several laboratories and make a rather extensive series of bacteriological examinations.

By the time this work had been brought to a close the International Joint Commission, established under the treaty between the United States and the Dominion of Canada, had taken up the question of regulating the pollution of international boundary waters, and, on request of the commission, Doctor McLaughlin was granted leave of absence from the service to accept appointment as chief sanitary expert and director of field work in investigations undertaken by the commission. These studies, although undertaken independently by the International Joint Commission, may, in a certain sense, be considered as an extension and continuation of the survey of Great Lakes cities previously undertaken by Doctor McLaughlin for the Public Health Service.

In the meantime, by an act approved August 14, 1912, Congress had extended the function of the Public Health Service to include, among other added duties, that of investigating "the diseases of man and conditions influencing the propagation and spread thereof, including sanitation and sewage and the pollution, either directly or indirectly, of the navigable streams and lakes of the United States," and in 1913 made a special appropriation, which has since been continued annually, for carrying out these provisions. The Public Health Service was thus enabled for the first time, in 1913, to establish field laboratories at such points in the United States as might be most suitable for special purposes and to employ a scientific personnel especially qualified to conduct investigations in various fields of research.

It was under this extended authority that in the summer of 1913 a group of sanitary engineers, chemists, biologists, and bacteriologists was assembled and a beginning made on a concerted plan for investigations relative to stream pollution. As originally organized, the work undertaken comprised the following main divisions:

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1. Studies of the biochemistry of sewage and industrial wastes were undertaken at the Hygienic Laboratory under the direction of Earle B. Phelps, affiliate, American Society of Civil Engineers, who was appointed in that year as chief of the division of chemistry in the laboratory. These studies were devoted especially to testing and developing the application of biological oxygen demand determinations to the measurement of the potential polluting effect of sewage and the capacity of streams for its oxidation, a field of research to which Mr. Phelps had already made notable contributions.

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2. Intimately connected with these was a series of studies, likewise under the direction of Mr. Phelps but carried on for the most part at various points outside of Washington, D. C., attempting, by means of experimental installations, to devise better methods for the treatment of various important industrial wastes for which economical and effective processes had not previously been evolved.

3. Under the direction of H. S. Cumming, surgeon, United States Public Health Service, the present Surgeon General of the service, a study of the pollution and natural purification of the Potomac River was undertaken. The Potomac was selected as a type of tidal stream, and special attention was paid in this study to the effect of sewage from the city of Washington on the waters near the mouth of the river, where important shellfish beds are situated. This investigation, which was completed in the summer of 1914, was then extended and continued as a survey of the sewage pollution of various coastal waters, with special reference to the contamination of shellfish.

4. At the same time, in the summer of 1913, work was begun on a study of the pollution and natural purification of the Ohio River, which was selected as a typical large inland stream, receiving sewage, usually without treatment, from all cities on its watershed, and at the same time being used by many of these cities as their source of water supply. Headquarters for this work were established in Cincinnati, Ohio, with subsidiary temporary laboratories at five other points along the river.

These several studies although conducted by working parties organized into separate units, were closely knitted together by being all under the direction of the Division of Scientific Research in the Bureau of the Public Health Service and by the intimate relations which were maintained between those in charge of the several organizations. In fact, they were considered and pursued, not as separate studies, but as interdependent parts of a common and general plan. They were all continued, substantially as originally organized in 1913, until 1917, when it was necessary to discontinue

them in order to utilize their personnel in various other more urgent duties during the period of the World War.

By the latter part of 1919, when it was possible to resume the investigations, the original personnel had become much dispersed by necessary assignments to other duties and by resignations. Likewise, the funds available for these investigations, although not actually reduced to any great extent, were relatively diminished by the material increase in all scales of cost, so that in the reorganization it was necessary to discontinue the investigations of coastal waters, which had been brought to a fairly definite conclusion, and to reestablish the other work at a single base in Cincinnati, which has since served as central headquarters for experimental studies of stream pollution and as the base from which parties have been sent out for work in the field.

Shortly after this reorganization the Surgeon General, recognizing the need for authoritative advice in the planning and conduct of these investigations, requested Dr. Stephen A. Forbes, professor emeritus of biology at the University of Illinois and director of the Illinois State Natural History Survey; Dr. Edwin O. Jordan, professor of hygiene and bacteriology at the University of Illinois; Langdon Pearse, member American Society of Civil Engineers, sanitary engineer of the Sanitary District of Chicago; and Earle B. Phelps, affiliate, American Society of Civil Engineers, consulting sanitary engineer, of New York, N. Y., to serve as consultants in studies of stream pollution. These consultants, meeting once or twice each year with the staff engaged in the investigations, and keeping in close touch with the progress made, have rendered generous and valuable assistance in shaping plans, devising methods, and interpreting results. Subsequently Joseph W. Ellms, member American Society of Civil Engineers, consented to serve as special consultant in studies of water-purification processes and has had an active share in the development of investigations along this line.

Since 1919 the principal field investigations undertaken from this

base have been-

1. A study of the pollution and natural purification of the Illinois River, undertaken chiefly to check and extend observations previously made on the Potomac and the Ohio Rivers relative to the laws governing natural purification in streams.

2. A survey of representative municipal sewage-disposal plants in various parts of the United States to collect information as to their

efficiency and cost in actual operation.

A collective study of municipal water-purification plants, chiefly
rapid sand filters, as operated in a number of cities on the Ohio River
and elsewhere, with a special view to ascertaining more precisely the

relations between pollution of the raw water and quality of the effluent under varying processes and conditions of operation.

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Along with these field studies experimental investigations have been consistently pursued in the Cincinnati laboratory, chiefly along the

following lines:

(a) An attempt has been and is being made, so far without notable success, to reproduce on a small scale, adapted for intensive experimental study, the phenomena of bacterial purification which are now known to take place in natural streams. This has included as a necessary item rather extensive research into the biology of various plankton forms in relation to bacterial purification.

(b) Studies of the biological oxygen demand of sewage, industrial wastes, and polluted river waters have been continued in the endeavor to establish more definitely the laws governing the natural processes of oxidation in streams and to check and improve the precision of methods for making the determinations required.

(c) As an extension of the collective study of municipal filter plants which was completed in 1924, experimental studies are now being made of the relation of the pollution of raw water to the quality of effluent obtainable by rapid sand filtration and chlorination, utilizing an experimental plant on the laboratory grounds which is designed so that the conditions of loading and of operation can be varied at will through a wide range.

In addition to these studies, which have been pursued at Cincinnati, work has been going on for several years at the Hygienic Laboratory under the direction of Dr. William Mansfield Clark, in a study of the physical chemistry of coagulation, with special reference to applications in water purification.

It would be impossible within a brief space, and is, moreover, not pertinent to this paper, to relate in more detail the history of the various undertakings which have been outlined, nor will any discussion of the results be attempted. As far as they have matured, they have already been made generally available in a considerable number of publications,<sup>2</sup> and some of them, with the addition of some more recent data, have been discussed in the papers by Messrs. Theriault, Streeter, and Hoskins, which follow.

In conclusion, it will be more appropriate to review briefly the broad general considerations which have determined the scope and direction of such studies as the Public Health Service has undertaken in this field since it has been in a position to make and pursue any general plan, that is, since 1913.

The first consideration, of course, has been the limitation of available resources, which have sufficed in most years for the maintenance of a staff not exceeding 6 to 12 workers in the higher grades, enough to

A list of the more important of these publications is given in the appended bibliography.

form a compact group for consistent work on definite lines, but obviously not sufficient to permit of any wide dispersion. The governing considerations in deciding on the use to be made of these resources have been: The existing status and trend of conditions with respect to sewage pollution in the waterways of this country; the status of sanitary science as applied to devising the remedial measures necessary to meet present and future conditions; and the facilities available through State and municipal organizations, independent institutions for research, and the engineering profession at large for conducting such further investigations as may be required.

With respect to sewage pollution, the status in the United States was, in 1913, and is to-day, that the greater part of the sewage from cities, probably not less than 85 to 90 per cent of it, is discharged without treatment into the most convenient stream. Where the dilution is insufficient for prompt oxidation and removal of the sewage, the result is the establishment of a gross nuisance in the immediate vicinity, offensive to the sense of decency and frequently injurious to the financial interests of the community responsible for the pollution. The remedy for this, however, is at hand, as the ingenuity of sanitary engineers, chemists, and biologists has already devised effective means for the treatment of sewage at reasonable cost, and self-interest may be relied upon to impel cities which suffer nuisance from their own sewage, to avail themselves of this remedy. The abatement of such gross nuisance is usually a local matter, requiring no broad plan of concerted action between widely separated communities, and, as the principles of the required treatment are already well established, such special investigation as is required is usually a matter of detail, to ascertain the particular process or combination of processes which will serve most economically and effectively in the particular case. Obviously, such investigations are the business of the State and local authorities and of the practicing engineers retained by them rather than of a Federal agency.

The more usual and more serious result, where dilution and current are sufficient to prevent immediate gross nuisance from the discharge of untreated sewage, is to contaminate the water supplies of other cities taken from the same river system at downstream points, or, in the case of tidal waters, dangerously to contaminate waters from which shellfish are taken. In the case of public water supplies necessarily taken from such polluted sources the immediate remedy is artificial purification of the supply. For this, again, sanitary science has already provided the means in various processes of treatment, economically practicable and of such efficiency that they may be relied upon to give safe effluents from water which is highly but not indefinitely polluted. In 1913 there were, to be

sure, a number of cities using dangerously polluted water supplies, but in every instance the remedy—installation of adequate water-purification works—was obvious, and such investigations as were required were not general, to ascertain the practicability of a remedy, but local and special, to decide upon the details of the installation best adapted to apply established principles to the problem at hand. It is clear that these local investigations, like those required for local sewage treatment installations, are not the function of the Public Health Service.

In general, the situation up to the present time has been that, notwithstanding the customary practice of discharging raw sewage into streams, those cities which have had to take their water supplies from the rivers thus polluted have almost invariably been able, by applying established processes of artificial water purification, to secure water supplies of good, safe quality. This has been true because the volume of the larger rivers is such as to afford great dilution, even for the sewage of the larger cities, and because of the distances between the sewer outlets of these cities and the water-supply intakes of other cities downstream are such as to permit of great reduction in pollution by the natural agencies of purification. Similarly, in coastal waters, although they are grossly polluted in the immediate vicinity of cities discharging sewage, there are still great areas sufficiently free from dangerous contamination to be suitable for shellfish culture. Consequently, local measures, namely, the installation of waterpurification plants for safeguarding water supplies and the condemnation or local protection of the relatively small areas unfit for shellfish culture, have sufficed for immediate protection against the dangers of sewage pollution. The protection has not been perfect, but it has tended to become progressively better in recent years, as evidenced by the enormous decrease in prevalence of sewage-borne diseases.

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Looking to the future, the conditions forseen and the remedies which must eventually be applied become more complex. With the growth of urban population, which still continues at a rapid rate, the sewage pollution of streams and coastal waterways must increase, and sooner or later, in the absence of anticipatory control, it seems inevitable that eventually the pollution will become such that waterpurification plants of the highest attainable efficiency will not be able to deliver consistently safe effluents. To guard against this condition it will be necessary, perhaps in the near future, to limit the pollution of such inland streams as are necessary sources of water supply by such measure of sewage treatment as will suffice to keep the pollution at water-works intakes within definite bounds.

This, however, is an extraordinarily complex matter, not only from the administrative point of view, with which this presentation

is not concerned, but equally from the scientific viewpoint. It implies a concerted plan of control applied to an entire river system as a unit, a plan in which, presumably, each community will be required to limit its contribution of sewage pollution, not in the interests of its own citizens but for the protection of other communities downstream, usually including cities in several States. Safety demands that the measure of control exercised be adequate; justice demands that it be distributed among the communities on some definite and equitable principle; and economy demands that it be not more rigid than is actually necessary to insure the requisite protection to health.

The data needed for laying out any such comprehensive plan for controlling the pollution of an entire river system, with due regard for the considerations of safety, equitable distribution of the burden

of control, and economy, are as follows:

First.—It is necessary to have established some quite definite and objective criterion of the quality which is to be maintained in the water supplies taken from the river as they are delivered to the consumers after artificial purification. This criterion or standard must be in terms of measurable characteristics, determinable by quantitative bacteriological or chemical examinations. It must be rigid enough to insure safety beyond any reasonable question, but not much more rigid than is actually necessary, lest it impose an excessive burden of costs.

Second.—It is necessary to have a fairly precise knowledge of the reliability and efficiency of such purification processes as can be applied at a reasonable cost to purification of the raw water available at the best practicable intake, for it is this efficiency, taken in connection with the standards set for the final effluent, that determines the upper limits of the pollution which may be tolerated at the intake.

Third.—It is necessary to know what proportionate part each of the sewered communities, situated at varying distances upstream, contributes to the pollution existing at any given intake, for otherwise it is impossible to estimate what effect elimination or reduction of the pollution from any single community will have in reducing the pollution in the intake zone. This, in turn, implies a fairly precise quantitative knowledge of the laws governing the processes of natural purification, and of how they may vary in different types of streams in relation to various climatic, seasonal, and hydrographic conditions, for it is only through such knowledge that these great protective processes which nature has provided may be used most effectively, and not to use them is to waste a natural resource of enormous economic importance.

Unfortunately, sanitary science has not furnished such full and precise knowledge as will be required on any of these points, especially in regard to the natural agencies which tend so greatly and rapidly to reduce bacterial contamination and which constitute one of the main reliances for protection of health. Moreover, it seems unlikely that it will be possible to borrow this knowledge from the experience of other more densely populated countries, as the writer knows of no other country having similar problems in the control of stream pollution on a comparable scale and for a similar purpose; that will probably have to be studied successfully before a solution becomes necessary for some of the great river systems in the United States.

It is with these considerations in view that the Public Health Service, with the advice of its consultants, has consistently directed its investigations of stream pollution along the lines described, devoting a large part of its effort to such undertakings as the attempt to improve technical methods for laboratory determinations, to evaluate the efficiency of filtration plants under the adverse conditions of loading which may be anticipated in the future, and to add something to the present scanty knowledge of the laws of natural purification. Information of this kind, even if it may seem at this time to be more or less academic, will be essential to sound sanitary engineering practice in the future. Moreover, it appears to be preeminently the kind of information that a Federal agency should collect, because it is of general, not local, application, and because it involves such long-continued and laborious investigations as are not likely to be undertaken by private agencies, or even by State and municipal organizations, busy as they are with more immediate administrative work and with the necessary local studies incident to it.

However, while the Public Health Service is confident that this general policy is sound, it can not, of course, feel equally confident that the sequence which is being followed in the development of these studies is the best possible or that the methods which are being applied are always the most effective. For guidance in such matters the service relies primarily on its special consultants, but, in addition, it always has sought and sincerely desires the criticism and constructive advice of the entire sanitary engineering profession. Therefore, the opportunity of outlining the purposes and present status of the work to the engineers of the country is especially appreciated, in the hope that they will further it by their criticism and advice.

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#### Appendix

# BRIEF BIBLIOGRAPHY RELATING TO STUDIES OF STREAM POLLUTION, SEWAGE, AND WATER SUPPLIES

The following is a list of the publications of the United States Public Health Service relating to studies of stream pollution, sewage, and water supplies. The list includes only publications containing original data, omitting numerous articles which present general discussions of various topics.3

Sewage Pollution of Interstate and International Waters, with Special Reference to the Spread of Typhoid Fever: I. Lake Erie and the Niagara River. By

A. J. McLaughlin. H. L. B. No. 77 (1912). 169 pp. 25 cents.

Sewage Pollution of Interstate and International Waters, etc.: II. Lake Superior and St. Marys River; III. Lake Michigan and the Straits of Mackinac;
IV. Lake Huron, St. Clair River, Lake St. Clair, and the Detroit River;
V. Lake Ontario and the St. Lawrence River. By A. J. McLaughlin. H. L. B. No. 83 (1912). 296 pp. 30 cents.

Sewage Pollution of Interstate and International Waters, etc.: VI. The Missouri River from Sioux City to Its Mouth. By A. J. McLaughlin. H. L. B.

No. 89 (1913). 84 pp.

Investigation of the Pollution and Sanitary Condition of the Potomac Watershed, with Special Reference to Self-Purification and the Contamination of Shellfish in the Lower Potomac River. By Hugh S. Cumming, with Contributions by W. C. Purdy and Homer C. Ritter. H. L. B. No. 104 (1916). 231 pp.

Investigation of the Pollution of Tidal Waters of Maryland and Virginia, with Special Reference to Shellfish-Bearing Areas. By Hugh S. Cumming.

H. L. B. No. 74 (1916). 199 pp. 10 cents.

\*Artificial Purification of Oysters. By William F. Wells. P. H. R., July 14, 1916. Reprint No. 351. 4 pp. Out of print.

Investigation of the Pollution of Certain Tidal Waters of New Jersey, New York, and Delaware. By Hugh S. Cumming. P. H. B. No. 86 (1917). 147 pp.

Stream Pollution: A Digest of Judicial Decisions and a Compilation of Legislation on the Subject. By Stanley D. Montgomery and Earle B. Phelps. P. H. B. No. 87 (1917). 408 pp.

Treatment and Disposal of Creamery Wastes. By Earle B. Phelps. P. H. R., December 6, 1918. Reprint No. 496. 5 pp.

Studies on the Treatment and Disposal of Industrial Wastes: I. The Treatment and Disposal of Strawboard Waste, by Harry B. Hommon; II. The Determination of Biochemical Oxygen Demand of Industrial Wastes and Sewage. By Emery J. Theriault and Harry B. Hommon. P. H. B., No. 97 (1918). 56 pp.

Studies on the Treatment and Disposal of Industrial Wastes: III. The Purification of Tannery Wastes. By Harry B. Hommon. P. H. B. No. 100

(1919). 133 pp.

Studies of Methods for the Treatment and Disposal of Sewage: Treatment of Sewage from Single Houses and Small Communities. By Leslie C. Frank and C. P. Rhynus. P. H. B. No. 101 (1919). 117 pp. 25 cents.

A Further Study of the Excess Oxygen Method for the Determination of the Biochemical Oxygen Demand of Sewage and Industrial Wastes. By Emery J. Theriault. P. H. R., May 7, 1921. Reprint No. 594. 11 pp.

<sup>&</sup>lt;sup>3</sup> The abbreviations used in the bibliography are as follows: "H. L. B.," Hygienic Laboratory Bulletin; "P. H. B.," Public Health Bulletin; and "P. H. R.," Public Health Reports, U. S. Public Health Service. The reprint number is given when the article appearing in Public Health Reports has been reprinted separately.

All but one of these publications are available at the present time either from the Public Health Service or from the Government Printing Office. Where the price is not given, the publication may be obtained free of charge from the Surgeon General, United States Public Health Service. Where the price is stated, remittance should be made to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Studies on the Treatment and Disposal of Industrial Wastes: IV. The Purification of Creamery Wastes. By Harry B. Hommon. P. H. G. No. 109 (1921). 87 pp. 10 cents.

Studies on the Treatment and Disposal of Industrial Wastes: V. The Purification of Tomato-Canning Wastes. By Harry B. Hommon. P. H. B.

No. 118 (1921). 58 pp. 10 cents.

Hypochlorite Process of Oyster Purification (Experimental). By F. A. Carmelia. P. H. R., April 22, 1921. Reprint No. 652. 10 pp.

The Loading of Filter Plants. By H. W. Streeter. P. H. R., March 24, 1922.

Reprint No. 737. 13 pp.

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Sewage Treatment in the United States: Report on the Study of Fifteen Representative Sewage Treatment Plants. By H. H. Wagenhals, E. J. Theriault,

and H. B. Hommon. P. H. B. No. 132 (1923). 260 pp.

An Experimental Study of the Relation of Hydrogenion Concentrations to the Formation of Floe in Alum Solutions. By Emery J. Theriault and William Mansfield Clark. P. H. R., February 2, 1923. Reprint No. 813. 20 pp.

Indicators for pH Control of Alum Dosage. By Barnett Cohen. P. H. R.,

April 6, 1923. Reprint No. 828. 2 pp.

On the Composition of the Precipitate from Partially Alkalinized Alum Solutions. By Lewis B. Miller. P. H. R., August 31, 1923. Reprint No. 862. 10 pp.

A Study of the Pollution and Natural Purification of the Ohio River: II. Report on Surveys and Laboratory Studies. By W. H. Frost, H. W. Streeter, J. K. Hoskins, and R. E. Tarbett. P. H. B. No. 143 (1924). 343 pp.

Absorption of Aluminium Hydrate Considered as a Solid Solution Phenomenon. By Lewis B. Miller. P. H. R., June 20, 1924. Reprint No. 932. 14 pp.

A Study of the Pollution and Natural Purification of the Ohio River: III. Factors Concerned in the Phenomena of Oxidation and Re-aeration. By H. W. Streeter and Earle B. Phelps. P. H. B. No. 146 (1925). 75 pp.

The Determination of Dissolved Oxygen by the Winkler Method. By Emery

J. Theriault. P. H. B. No. 151 (1925). 43 pp.

Some Preliminary Observations from a Study of Water Purification Plants Along the Ohio River. By H. W. Streeter. P. H. R., January 30, 1925. Reprint No. 987. 11 pp.

A Study of the Effects of Anions Upon the Properties of "Alum Floc." By Lewis B. Miller. P. H. R., February 20, 1925. Reprint No. 992. 18 pp.

### MORTALITY SUMMARY FOR 78 LARGE CITIES

Number of deaths, death rates, and infant mortality in 78 large cities of the United States for 52 weeks of 1925 and comparison with 1924

[From the Weekly Health Index, Bureau of the Census, Department of Commerce]

		Death	Deaths Deaths		Infant mor-	Mortality data for cal- endar year 1924		
City <sup>1</sup>	deaths	Death rate <sup>3</sup>	under 1 year	infant mor- tality rate, 1925 3,3	tality rate, 1924	Total deaths	Death rate	Deaths under 1 year
Total (69 cities)	369, 142	12.6	45, 384	4 70	4 72	359, 467	12.5	47, 049
Akron 1	1,867		291	60	61	1, 537		280
Albany	1,826 3,862	15.3	174 518	70	72	1,827 4,215	15.4	172 590
Baltimore		14.6	1, 382	77	85	11, 310	14.4	1, 47
Birmingham 6	3, 473	16.9	493			3, 411	17.0	490
Boston	11,472	14.7	1,601	87	74	10, 940	14.1	1, 473
Bridgeport 4	1,535	19 4	165	54 85	56 84	1,537 6,955	15.3	183
Buffalo	7,388	13. 4 12. 7	1,054	58	53	1.435	12.8	1,00
Camden		13.7	271	88	91	1, 435 1, 744	13.8	297
Canton	1,073	10.1	156	67	81	1,040	10.1	200
Chicago	34, 200	11.4	4, 474	76	77	32, 915	11.2	4, 525
Cincinnati		15.9	635	76	79	6, 218	15. 2	694
Cleveland	9, 683	10.4	1,304	65 76	66 65	9, 295 3, 532	10.2	1,386
Dallas 4		13.7	448	10	00	2, 462	13. 1	415
Dayton		11.3	178	54	72	1,837	10.9	239
Denver 1	4, 116	14.7	465			4, 122	14.9	517
Des Moines	1,580	10.6	130	42	57	1,505	10.4	177
Detroit		10.9	2, 559 131	79 59	79 64	12,841	10.7	2, 394 154
Duluth El Paso 6.	1,061	9.6	343	09	01	1,782	9.6	375
Erie 4.	1, 280	20.0	167	61	67	1, 271		179
Fall River	1, 572	13.0	298	83	92	1,600	13. 2	332
Flint	991	7.6	216	69	69	951	7.7	227
First Worth	1,535	10.1	191			1, 296	8.8	165
Grand Rapids	1,760	11.5	246	69	53	1,530	10.3	175 299
Houston 6	2,576 4,931	15. 7 13. 8	349 472	68	77	2,328 4,597	14. 5 13. 1	565
Jersey City	3, 663	11.7	464	63	77	3, 821	12.2	563
Kansas City, Kans.	1,645	13.3	223	78	94	1,530	12.6	247
Kansas City, Kans	5, 053	13.8	590			4,825	13. 4	599
Los Angeles 1	11, 428	********	1, 213	65	66	11, 309	*******	1, 250
Louisville	4, 198 1, 534	16. 2 13. 2	442 227	73 81	71 93	3, 947 1, 548	15.3 13.4	441 279
LowellLynn		11.0	135	65	72	1, 159	11.2	149
Memphis	3, 441	19.8	434			3, 506	20.4	456
Milwaukee	5, 448	10.9	845	75	70	4,842	9.8	786
Minneapolis	4,902	11.6	566	61	54	4, 689	11.2	522
Nashville 6 New Bedford	2,310 1,389	17.0	295 241	81	79	2,371 1,350	19. 2 10. 2	314 250
New Haven	2, 143	12.0	239	63	72	2, 153	12.2	290
New Haven New Orleans 6	7, 935	19. 2	995	00		7,600	18.6	846
New York	71,655	11.8	8, 321	65	68	71,306	11.9	8,800
Bronx Borough	8, 327	9.3	752	48	60	7,894	9.1	905
Brooklyn Borough	23, 689	10.6	2, 959 3, 746	58	64	24, 577	11. 2	3, 216 3, 698
Manhattan Borough	31, 293 6, 129	13. 9 10. 7	3, 746 692	80 60	74 69	30, 594 6, 513	11.7	3, 098
Queens Borough	2, 217	16.6	172	58	70	1,728	13. 2	203
Newark, N. J.	5, 271	11.7	737	68	65	4,982	11.2	740
Norfolk 3	1,746		235	81	82	1,741		231
Oakland Oklahoma City *.*	2,560	10.1	232	52	66	2,767	11.2	297
Omehe	1, 195 2, 794	19 0	149 310	62	67	1, 167 2, 650	12.7	170 342
Omaha Paterson	1, 675	13. 2 11. 9	189	63	65	1, 706	12.1	201
Philadelphia	26, 028	13. 2	3, 030	77	75	25, 263	12.9	3, 105
Pittsburgh	9, 366	14.9	1, 254	80	92	9,720	15.5	1, 440
Portland, Oreg	3, 349	11.9	234	46	54	3, 240	11.7	279

Otties appearing in the summary are those shown for the 52 weeks in the Weekly Health Index. Allowance has been made for the extra day, which must be added to the 52 weeks to give a period of 365 days.
Infant mortality rate is based upon deaths under 1 year as returned each week and estimated births,

Infant mortality rate is based upon the sum of the light mortality rate for the cities in the birth registration area, appearing in the summary.
 Mortality rates are omitted, pending the establishment of more satisfactory estimates of population.
 Cities with no infant mortality rate are not in the registration area for births.

Number of deaths, death rates, and infant mortality in 78 large cities of the United States for 52 weeks of 1925 and comparison with 1924—Continued

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			Provi- sional infant	Infant mor-	Mortality data for cal- endar year 1924			
City	Total deaths	Death	under 1 year	mor- tality rate, 1925	tality rate, 1924	Total deaths	Death rate	Deaths under 1 year
Richmond	2,735	14.7	371	90	88	2,818	15. 3	382
Rochester	3, 808	11.5	417	64	59	3, 623	11.1	385
St. Louis	11, 476	14.0	949			10, 993	13. 5	1,066
St. Paul.		12.0	242	41	57	2,928	12.0	347
Salt Lake City	1, 521	11.6	159	42	62	1,677	13. 0	213
San Antonio	3, 020	15.3	556			2,995	15.6	612
San Diego	1,751	16.6	133	54	55	1,664	17.3	122
San Francisco	7, 303	13. 1	457	52	56	7, 484	13.6	504
Schenectady	1, 050	10.3	124	69	66	1,005	16.0	122
Seattle 4	3, 379		223	40	46	3, 312		249
Somerville	1, 113	10.9	145	73	56	981	9.8	110
Spokane	1,370	12.6	115	52	52	1, 302	12.5	120
Springfield, Mass	1, 757	11.5	219	61	69	1, 691	11.4	261
Syracuse	2, 269	11.9	278 91	67	69 57	2, 259	12.0	288 127
Tacoma	1, 178	11.3	434	81	60	1, 145	11.1	401
Toledo	3, 475 2, 026	12.1	259	83	93	3, 293 1, 872	14.4	294
TrentonUtica	1, 472	13.8	168	71	81	1, 572	14.9	197
Washington, D. C	7, 032	14. 2	761	83	76	6, 553	13.5	705
Waterbury 5	1, 061	14.2	178	74	77	1, 045	10.0	187
Wilmington, Del	1, 440	11.8	202	91	91	1, 407	11.7	209
Worcester	2, 508	12.6	301	67	63	2,465	12.6	288
Yonkers	1, 122	10.1	144	62	72	1, 088	9.9	172
Youngstown	1, 685	10.6	286	70	72	1, 667	10.7	308

Mortality rate, are omitted, pending the establishment of more satisfactory estimates of population.
Cities with no infant mortality rate are not in the registration area for births.

# DEATHS DURING WEEK ENDED JANUARY 2, 1926

Summary of information received by telegraph from industrial insurance companies for week ended January 2, 1926, and corresponding week of 1925. (From the Weekly Health Index, January 5, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week ended Jan. 2, 1926	Corresponding week, 1925
Policies in force	62, 530, 137	58, 136, 497
Number of death claims	11, 655	10, 615
Death claims per 1,000 policies in force, annual rate	9. 7	9. 5

Deaths from all causes in certain large cities of the United States during the week ended January 2, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, January 5, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week en 2, 1		Annual death	Deaths	Infant mortality	
City	Total deaths	Death rate 1	rate per 1,000 corre- sponding week, 1925	Week ended Jan. 2, 1926	Corresponding week, 1925	rate week ended Jan. 2, 1926 <sup>2</sup>
Total (67 cities)	8,046	14.4	14.3	831	1,010	3 67
Akron	35			8	6	81
Albany 4	43	18.7	15. 2	8 7	2	153
Atlanta	105			12	12	
White	64			6	********	
Colored	41	16.7		6		
Baltimore 1	255	16. 7	16.6	27	21	8
White	191			. 20		7
Colored	64	17.7	20.8	7	15	113
Birmingham	70	11.1	20.8	10	15	
White	29	(6)		3 7		
Colored	273	18. 2	16.4	25	45	6
Boston	36	10. 4	10.4	5	8	80
BridgeportBuffalo	137	12.9	12.8	16	12	60
Cambridge	26	12.1	11.1	1	5	17
Camden	39	15.8	17.8	i	8	16
Chicago 4	749	13.0	13.6	96	106	8
incinnati	129	16. 4	16.4	7	15	4
Cleveland	206	11.5	11.9	19	26	4
Columbus	89	16.6	16.8	10	10	90
Dallas	57	15.4	15.9	12	4	
White	38			9		
Colored	19	(1)		3 7		
Dayton	42	12.7	11.2		1	110
Denver	91	16.9	15.4	11	11	
Des Moines	25	8.7	10.8	0	0	-
Detroit	327	13. 7 10. 9	11.2	46	61	7
Duluth	31	15. 4	5. 2 14. 4	0	0	
El Paso	28	10. 1	14.4	2 3 7	4	56
Erie Fall River 4	47	20. 2	15. 1	7	4	100
Flint	22	8.8	6.8	i	5	16
Fort Worth	31	10.6	10.3	2	6	
White	24			2 2 0		
Colored	7 1	(5)		0		
Grand Rapids	34	11.5	12.2	6	3	94
Houston	65	20. 5	19.0	7	7	*******
White	38			4		
Colored	27	(5)		3		
ndianapolis	109	15.8	14.5	4	10	28
White	94			1		164
Colored	15	(3)		3		164
lersey City	88	14.6	14.7	21	14	149
Kansas City, Kans	35 29	14.7	19.4	6 2	4	45
White	6	(1)		1	******	737
Colored	108	15.3	14.6	10	12	
Kansas City, Mo	233	10. 0	11.0	21	22	57
os Angeles	103	20.7	18.5	10	10	84
White	84		10.0	9		86
Colored	84	(8)		1		68
owell .	37	16.6	10.7	4	5	60
ynn.	31	15.4	13.9	6	0	151
Memphis	54 35	16. 1	24.5	- 8	5	
White				4		
Colored	19	(b) 11.7		4		
dilwaukee	. 113	11.7	10.9	24	29 10	111
Minneapolis	97 1	11.9	13.6	12	10	64

<sup>&</sup>lt;sup>1</sup> Annual rate per 1,000 population.

<sup>2</sup> Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births.

Data for 61 cities.
 Deaths for week ended Friday, Jan. 1, 1926.
 Deaths for week ended Friday, Jan. 1, 1926.
 In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentage of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 16, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended January 2, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, January 5, 1926, issued by the Bureau of the Census, Department of Commerce)-Continued

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	Week en 2, 1		Annual death rate per		under 1 ear	Infant mortality rate
City	Total deaths	Death rate	1,000 corre- sponding week, 1925	Week ended Jan. 2, 1926	Corre- sponding week, 1925	week ended Jan. 2, 1926
Nashville *	61	23.3	18.0	7 5	8	
White	37			5		
Colored	24	(a)		2 5		
New Bedford	36	13. 9	12.7	5	4	8
New Haven	50	14.6	13.1	3	3	3
New Orleans	176	22. 1	22.8	14	25	
White	103	/6		3		*******
Colored	1, 488	12.7	13.5	153	188	6
New York Bronx Borough	180	10.4	10.1	15	22	5
Brooklyn Borough	490	11.4	11.8	56	61	5
Manhattan Borough	639	14.8	15.8	61	77	6
Queens Borough	139	12.6	14.6	17	23	7
Richmond Borough	40	15.6	21.0	4	5	7
Newark, N. J.	145	16.7	13.0	22	24	10
Norfolk	45			2	. 4	3
White	26			0		
Colored,	19	(5) 15. 2		2		0
Oakland	74	15. 2	12.5	6	5	0
Oklahoma City	24			1	1	*******
Omaha	64	15.8	13.3	15	15	15
Paterson	47	17. 3	15.5	4	3	6
Philadelphia	553	14.6	15.7	44	89 30	5
Pittsburgh	172	14. 2 13. 8	16.4	19		2
Providence	92	19.6	15.5	10	8 3	7
Richmond	54	15, 1	12.6	6	6	7
White	28	20. 2		o o		
Colored	26	(5)		6		21
Rochester	76	12.0	12.9	7	5	5
St. Louis	261	16.6	15.6	18	18	
St. Paul	59	12.5	12.9	2 2	7	1
Salt Lake City 4	42	16.7	14.7	2	6	3
San Antonio	71	18.7	17.4	10	13	
San Diego	54	26.6	20.2	6 2 0	4	14
San Francisco.	165	15. 4 12. 2	16.6	2	9	1
Schenectady	24 56	12.2	0.2		1 5	3
SeattleSomerville	18	9, 2	12.3	3	6	7
Spokane.	41	19.6	13, 9	î	1	2
Springfield, Mass	39	13.3	9.2	3	3	4
Syracuse	43	11.7	9. 2 12. 8	3	11	3
Tacoma	32	16.0	11.5	2	2	4
Toledo	77	14.0	14.2	7 3	9	6
Trenton	41	16. 2	18.6		. 11	41
Washington, D. C.	170	17.8	14.8	15	8	84
White	104			6		45
Colored	66	(8)		9		16
Waterbury Wilmington, Del	18			5	3	10
Wilmington, Del	39	16.7	14.1	3	6	6
W orcester	61	16.0	14.9	3	8	3
Yonkers	26	12.1	9.3	3	0	6
Youngstown	34	11.1	6.5	3	1	3

<sup>&</sup>lt;sup>4</sup> Deaths for week ended Friday, Jan. 1, 1926.
<sup>5</sup> In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentage of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26 Norfolk 38, Richmond 32, and Washington, D. C., 25.

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

# UNITED STATES

### CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

#### Reports for Week Ended January 9, 1926

ALABAMA	_	. CALIFORNIA	-
	Cases	The state of the s	Cases
Cerebrospinal meningitis	2	Cerebrospinal meningitis:	
Chicken pox	52	Los Angeles	
Dengue	1	Los Angeles County	
Diphtheria	19	Oakland	. 1
Influenza	204	San Francisco	1
Malaria	7	Chicken pox	308
Measles	9	Diphtheria	
Mumps	52	Influenza	355
Pellagra	13	Leprosy-Sonomo County	1
Pneumonia	180	Lethargic encephalitis-Redwood City	. 1
Poliomyelitis.	2	Measles	44
Scarlet fever	17	Mumps	286
Smallpox	16	Poliomyelitis-Tulare County	1
Trachoma	6	Scarlet fever	165
Tuberculosis	38	Smallpox:	
Typhoid fever	9	Los Angeles	25
Whooping cough	20	Los Angeles County	
		Oakland	
ARIZONA		Sacramento	
Chicken pox	11	Scattering	
Diphtheria	18	Typhoid fever	-
Mumps	12	Whooping cough	
Paratyphoid fever	2		
Scarlet fever	10	COLORADO	
Tuberculosis	14	Chicken pox	78
Typhoid fever	3	Diphtheria	7
Whooping cough	8	Measles	12
	1.3	Mumps	8
ARKANSAS	1	Pneumonia	7
Chicken pox	17	Scarlet fever	31
Diphtheria	5	Smallpox	1
Hookworm disease	1	Tuberculosis	95
Influenza	126	Typhoid fever	3
Malaria	. 25	Whooping cough	12
Mumps	5	w mooping cough	-
Pellagra	5	CONNECTICUT	
Scarlet fever	6	Chicken pox	113
Smallpox	2	Conjunctivitis (infectious)	20
Tuberculosis	5	Diphtheria	49
Typhoid fever	2	German measles	
Whooping cough	4	Influenza	
Trionpring cougainment of the course of the cougainment of the cougain			

CONNECTICUT—continued	Cases	ILLINOIS—continued	Cases
Lethargic encephalitis		Lethargic encephalitis	2
Measles		Measles	357
Mumps	-	Pneumonia	495
Pneumonia (broncho)		Poliomyelitis:	
Pneumonia (lobar)		Adams County	1
Scarlet fever		Cook County	1
Septic sore throat		Fulton County	1
Tuberculosis (all forms)		Jasper County	1
	-	Richland County	1
Typhoid fever		Scarlet fever	462
Whooping cough	00	Smallpox:	
DELAWARE		Champaign County	3
Chicken pox	3	Cook County	1
Diphtheria		Kane County	12
Influenza	5	Marshall County	6
Measles	29	McLean County	4
Pneumonia	5	Saline County	8
Scarlet fever	11	Winnebago County	3
Tuberculosis	4	Scattering.	10
Whooping cough		Tuberculosis	172
w Hoobing Config	•	Typhoid fever:	
PLORIDA		Cook County	4
Chicken pox	26	Franklin County	5
Diphtheria	19	Scattering	21
Influenzs	22	Whooping cough	205
Malaria	28		-
Measles	4	INDIANA	
Mumps	18	Chicken pox	97
Pneumonia	14	Diphtheria	58
Scarlet fever	15	Influenza	83
Smallpox	27	Measles	202
Tuberculosis	9	Pneumonia	33
Typhoid fever	12	Poliomyelitis	1
Whooping cough	2	Scarlet fever	188
		Smallpox	70
GEORGIA		Trachoma	4
Chicken pox	12	Tuberculosis	58
Conjunctivitis (acute)	1	Typhoid fever	10
Diphtheria	17	Whooping cough	46
Hookworm disease	2		
Influenza	138	EANSAS	
Malaria	11	Cerebrospinal meningitis—Hutchinson	1
Measles	32	Chicken pox	212
Mumps	15	Diphtheria	19
Pellagra	1	German measles.	1
Pneumonia	89	Influenza	20
Scarlet fever	9	Measles	- 36
Septic sore throat	6	Mumps	15
Smallpox	8	Pneumonia	78
Tuberculosis	36	Scarlet fever	86
Typhoid fever	9	Smallpox.	1
Typhus fever	1		105
Whooping cough	9	Tuberculosis	3
ti nooping cought consequences		Typhoid fever	88
ILLINOIS		Whooping cough	99
Cerebrospinal meningitis:		LOUISIANA	
Cook County	2	Diphtheria	30
	i		1
Fulton County	1	Dysentery	28
Kane County	1		-
I luinasten Countre	1	Pneumonia	48
Livingston County	-	Canalat former	
Diphtheria:		Scarlet fever	9
Diphtheria: Cook County	84	Smallpox	26
Diphtheria: Cook County Peoria County	84 8	SmallpoxTuberculosis	26 51
Diphtheria: Cook County	84	Smallpox	26

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MAINE	1	MINNESOTA	
MAINE	Cases		Cares
Chicken pox	22	Chicken pox	188
Diphtheria	7	Diphtheria	85
German measles	3	Influenza	1
Influenza	3	Measles	31
Measles	4	Pneumonia	3
Mumps	22	Poliomyelitis	1
Pneumonia	17	Scarlet fever	332
Poliomyelitis	2	Smallpox	3
Scarlet fever	31	Tuberculosis	34
Tuberculosis	8	Typhoid fever	4
Typhoid fever	3	Whoeping cough	42
Vincent's angina	1	MISSISSIPPI	
Whooping cough	8	Diphtheria	13
MARYLAND I		Scarlet fever	8
Chicken pox	176	Smallpox	8
Diphtheria	26	Typhoid fever	3
Dysentery	1	A J Privite 10101 - care a car	
German measles	3	MISSOURI	
Influenza	82	Chicken pox	112
Lethargic encephalitis	1	Diphtheria	80
Malaria	1	Influenza	39
Measles	690	Measles	29
Mumps	147	Mumps	61
Pneumonia (broncho)	83	Pneumonia	32
Pneumonia (lobar)	86	Scarlet fever	210
Scarlet fever	43	Smallpox	17
Septic sore throat	1	Trachoma	1
Trachoma	1	Tuberculosis	51
Tuberculosis	68	Whooping cough	43
Typhoid fever	7	MONTANA	
Vincent's angina	1	Chicken pox	29
Whooping cough	72	Diphtheria	19
344 004 FWEET BY THE		Measles.	1
MASSACHUSETTS		Measles Mumps	90
Cerebrospinal meningitis			
Cerebrospinal meningitis	280	Mumps	90
Cerebrospinal meningitis	280 15	Mumps Scarlet fever Smallpox	90
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria	280 15 100	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever	90 20 4
Cerebrospinal meningitis Chicken pox. Conjunctivitis (suppurative) Diphtheria German measles	280 15 100 59	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever	90 20 4 3
Cerebrospinal meningitis Chicken pox. Conjunctivitis (suppurative) Diphtheria German measles Hookworm disease	280 15 100 59	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	90 20 4 3 5
Cerebrospinal meningitis Chicken pox	280 15 100 59 1	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	90 20 4 3 5 24
Cerebrospinal meningitis Chicken pox	280 15 100 59 1 17	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox.	90 20 4 3 5 24
Cerebrospinal meningitis Chicken pox	280 15 100 59 1 17 1 1,651	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria	90 20 4 3 5 24 22
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles Hookworm disease Influenza Lethargic encephalitis Measles Mumps	280 15 100 59 1 17 1 1,651 71	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza	90 20 4 3 5 24 22 11 5
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles Hookworm disease Influenza Lethargic encephalitis Measles Mumps Ophthalmia neonatorum	280 15 100 59 1 17 1 1,651 71	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles	90 20 4 3 5 24 22 11 5 3
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria. German measles. Hookworm disease Influenza. Lethargic encephalitis. Measles. Mumps. Ophthalmia neonatorum. Pellagra.	280 15 100 59 1 17 1 1,651 71 18	Mumps Searlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps	90 20 4 3 5 24 22 11 5 3 5
Cerebrospinal meningitis Chicken pox	280 15 100 59 1 17 1 1,651 71 18 1	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia	90 20 4 3 5 24 32 11 5 3 5 2
Cerebrospinal meningitis Chicken pox	280 15 100 59 1 17 1 1,651 71 18 1 234	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever	90 20 4 3 5 24 22 11 5 3 5 2 6 3
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles. Hookworm disease Influenza. Lethargic encephalitis Measles. Mumps. Ophthalmia neonatorum. Pellagra Pneumonia (lobar) Poliomyelitis. Scarlet fever.	280 15 100 59 1 17 1 1,651 71 18 1 234 2	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat	90 20 4 3 5 24 32 11 5 3 5 2 63 2
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles Hookworm disease Influenza Lethargic encephalitis Measles Mumps Ophthalmia neonatorum Pellagra Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat	280 15 100 59 1 17 1,651 71 18 1 234 2 295	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox	90 20 4 3 5 24 32 11 5 3 5 2 63 2 20
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria. German measles. Hookworm disease Influenza. Lethargic encephalitis. Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat. Tetanus.	280 15 100 59 1 17 1,651 71 18 1 234 2 295	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis	90 20 4 3 5 24 22 11 5 3 5 2 63 2 20 1
Cerebrospinal meningitis Chicken pox	280 15 100 59 1 17 1,651 71 18 1 234 2 295 1	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox	90 20 4 3 5 24 32 11 5 3 5 2 63 2 20
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles. Hookworm disease Influenza. Lethargic encephalitis Measles. Mumps. Ophthalmia neonatorum. Pellagra Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Tetanus. Trachoma. Tuberculosis (pulmonary).	280 15 100 59 1 17 1 1,651 71 18 1 234 2 295 1 1 2 1 2	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough	90 20 4 3 5 24 32 11 5 3 5 2 63 2 20 17
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles. Hookworm disease Influenza. Lethargic encephalitis Measles. Mumps. Ophthalmia neonatorum. Pellagra Pneumonia (lobar) Poliomyelitis Scarlet fever. Septic sore throat Tetanus. Trachoma. Tuberculosis (pulmonary). Tuberculosis (other forms)	280 15 100 59 1 1, 651 71 18 1 234 2 295 1 1 2 123 26	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough	90 20 4 3 5 24 22 11 5 3 5 2 2 6 3 2 2 11 7 11 17 17 17
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles Hookworm disease Influenza Lethargic encephalitis Measles Mumps Ophthalmia neonatorum Pellagra Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Tetanus Trachoma Tuberculosis (pulmonary) Tuproid fever	280 15 100 59 1 17 1,651 18 1 234 2 295 1 1 1 233 26 5	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Çerebrospinal meningitis	90 20 4 3 5 24 32 11 5 3 5 2 63 2 2 20 11 17
Cerebrospinal meningitis Chicken pox. Conjunctivitis (suppurative) Diphtheria. German measles. Hookworm disease. Influenza. Lethargic encephalitis Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat. Tetanus. Trachoma. Tuberculosis (pulmonary) Tuberculosis (other forms) Typhoid fever. Whooping cough.	280 15 100 59 1 17 1,651 18 1 234 2 295 1 1 1 233 26 5	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox.	90 20 4 3 5 24 32 11 5 3 5 2 2 20 11 17
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria.  German measles Hookworm disease Influenza. Lethargic encephalitis Measles Mumps Ophthalmia neonatorum Pellagra Pneumonia (lobar) Poliomyelitis Scarlet fever. Septic sore throat Tetanus. Trachoma Tuberculosis (pulmonary) Tuberculosis (other forms) Typhoid fever. Whooping cough	280 15 100 59 1 17 1 1,651 71 18 1 234 2 295 1 1 2 1 2 1 2 3 3 2 6 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria	90 20 4 3 5 24 22 11 5 3 5 5 2 2 6 3 2 2 2 11 17
Cerebrospinal meningitis Chicken pox	280 15 100 59 1 17 1 1,651 71 18 1 234 2 295 1 1 2 123 26 5 393	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Çerebrospinal meningitis Chicken pex Diphtheria Influenza	90 20 4 3 5 24 32 21 15 5 2 63 2 2 20 11 17
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles. Hookworm disease Influenza. Lethargic encephalitis Measles. Mumps. Ophthalmia neonatorum Pellagra Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Tetanus. Trachoma. Tuberculosis (pulmonary) Tuberculosis (other forms) Typhoid fever. Whooping cough  MICHIGAN Diphtheria. Measles	280 15 100 59 1 17 1 1, 651 18 1 234 2 295 1 1 2 123 26 5 393 134 1, 139	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fiver Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles	90 20 4 3 5 24 32 21 11 5 3 5 2 2 20 11 17 1 1 1 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles Hookworm disease Influenza Lethargic encephalitis Measles Mumps Ophthalmia neonatorum Pellagra Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Tetanus Trachoma Tuberculosis (pulmonary) Tuberculosis (other forms) Typhoid fever Whooping cough MICHIGAN Diphtheria Measles Pneumonia.	280 15 100 59 1 17 1 1,651 18 1 234 2 295 1 1 2 2 123 26 5 393 134 1,139 291	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Anthras Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pneumonia	900 200 44 3 5 5 24 24 32 22 11 5 5 2 2 20 11 17 1 1 1 504 151 12 11, 121 295
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles Hookworm disease Influenza Lethargic encephalitis Measles Mumps Ophthalmia neonatorum Pellagra Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Tetanus Trachoma Tuberculosis (pulmonary) Tuberculosis (other forms) Typhoid fever Whooping cough  MICHIGAN Diphtheria Measles Pneumonia Scarlet fever  Scarlet fever	280 15 100 59 1 17 1 1,651 18 1 234 2 295 1 1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pneumonia Poliomyelitis	900 200 44 3 5 24 24 22 11 5 5 2 2 200 1 1 17 504 151 21 1, 121 295 1
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria.  German measles Hookworm disease Influenza Lethargic encephalitis Measles Mumps Ophthalmia neonatorum Pellagra Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Tetanus Trachoma Tuberculosis (pulmonary) Tuberculosis (other forms) Typhoid fever Whooping cough  MICHIGAN Diphtheria Measles Pneumonia Scarlet fever Smallpox	280 15 100 59 1 17 1 1, 651 71 18 1 234 2 295 1 1 2 123 26 5 393 134 1, 139 295 395 5 393 134 1, 139 2, 139 1, 1	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Influenza Measles Pneumonia Scarlet fever Septic Sore throat Smallpox Tuberculosis Whooping cough	900 200 44 3 5 24 24 32 24 11 5 5 2 2 200 1 1 17 504 151 21 1, 121 295 1 215
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles. Hookworm disease Influenza. Lethargic encephalitis Measles. Mumps. Ophthalmia neonatorum Pellagra Pneumonia (lobar) Poliomyelitis. Scarlet fever Septic sore throat. Tetanus. Trachoma. Tuberculosis (pulmonary) Tuberculosis (other forms). Typhoid fever. Whooping cough  MICHIGAN Diphtheria. Measles. Pneumonia. Scarlet fever Smallpox. Tuberculosis	280 15 100 59 1 17 1, 651 18 1 234 2 295 1 1 2 1 2 2 3 3 3 3 3 3 3 3 4 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pneumonia Poliomyelitis Scarlet fever Trachoma	90 20 4 3 5 24 32 21 5 3 5 2 2 20 11 17 11 11 11 11 11 11 11 11
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles. Hookworm disease Influenza. Lethargic encephalitis Measles. Mumps. Ophthalmia neonatorum. Pellagra Pneumonia (lobar) Poliomyelitis Scarlet fever. Septic sore throat Tetanus. Trachoma. Tuberculosis (pulmonary). Tuberculosis (other forms) Typhoid fever. Whooping cough  MICHIGAN Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox Tuberculosis. Typhoid fever.	280 15 100 59 1 17 1 1,651 1 234 2 295 1 1 232 26 5 393 134 1,139 291 286 51 139 139 139 139 139 139 139 13	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Çerebrospinal meningitis Chicken pex Diphtheria Influenza Measles Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Çerebrospinal meningitis Chicken pex Diphtheria Influenza Measles Pneumonia Poliomyelitis Scarlet fever Trachoma Typhoid fever	900 200 44 3 3 5 24 24 22 11 5 5 2 2 20 1 1 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles. Hookworm disease Influenza. Lethargic encephalitis Measles. Mumps. Ophthalmia neonatorum Pellagra Pneumonia (lobar) Poliomyelitis. Scarlet fever Septic sore throat. Tetanus. Trachoma. Tuberculosis (pulmonary) Tuberculosis (other forms). Typhoid fever. Whooping cough  MICHIGAN Diphtheria. Measles. Pneumonia. Scarlet fever Smallpox. Tuberculosis	280 15 100 59 1 17 1 1,651 1 234 2 295 1 1 232 26 5 393 134 1,139 291 286 51 139 139 139 139 139 139 139 13	Mumps Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEBRASKA Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Whooping cough  NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pneumonia Poliomyelitis Scarlet fever Trachoma	90 20 4 3 5 24 32 21 5 3 5 2 2 20 11 17 11 11 11 11 11 11 11 11

NEW YORK		PENNSYLVANIA—continued	
(Exclusive of New York City)	Cases		Cases
Cerebrospinal meningitis		Pittsburgh	
Diphtheria		Scattering	
Influenza		German measles	
Lethargic encephalitis		Impetigo contagiosa	
Measles	***	Lethargic encephalitis—Philadelphia	2
Pneumonia		Measles	
Poliomyelitis	-	Mumps	131
Scarlet fever		Pellagra—Philadelphia	1
Smallpox	3	Pneumonia	100
Typhoid fever		Poliomyelitis:	
Whooping cough	327	Pittsburgh	1
W Booking consussions		Scattering	2
NORTH CAROLINA		Scables	5
Chicken pox	155	Scarlet fever	574
Diphtheria	53	Smallpox-Rochester	1
German measles	3	Trachoma	2
Measles	54	Tuberculosis	102
Poliomyelitis	. 1	Typhoid fever	27
Scarlet fever	55	Whooping cough	285
Septic sore throat	2		
Smallpox	28	RHODE ISLAND	
Typhoid fever	11	Chicken pox	4
Whooping cough	56	Diphtheria	16
		German measles	12
OKLAHOMA		Induenza	8
(Exclusive of Tulsa and Oklahoma City)	)	Measles	423
and the second of		Ophthalmia neonatorum	2
Chicken pox	31	Paratyphoid fever-Providence	1
Diphtheria	28	Pneumonia	1
Influenza	281	Scarlet fever	10
Measles	* 4	Tuberculosis	7
Mumps	7	Whooping cough	3
Pneumonia	158		-
Scarlet fever	26	SOUTH DAKOTA	
Smallpox	8	Chicken pox	2
Typhoid fever	12	Diphtheria	5
Whooping cough	19	Measles	3
OREGON		Mumps	2
		Pneumonia	5
Cerebrospinal meningitis	4	Poliomyelitis	4
Chicken pox	35	Scarlet fever	54
Diphtheria	37	Smallpox	9
Influenza	7	Whooping cough	12
Measles	7	CHARLES AND A COLUMN AS A STATE OF THE PARTY	
Mumps	43	TENNESSEE	
Pneumonia	18	Chicken pox	38
Poliomyelitis	1	Diphtheria	19
Scarlet fever	54	Influenza	107
Smallpox:		Malaria	7
Albany	8	Measles	70
Bend	24	Mumps	2
Josephine County	8	Pellagra	4
Scattering	17	Pneumonia	100
Tuberculosis	11	Scarlet fever	26
Typhoid fever	6	Smallpox	2
Whooping cough	20	Tuberculosis	19
PENNSYLVANIA		Typhoid fever	. 8
PENNSYLVANIA		Whooping cough	6
Anthrax-Philadelphia	1		-
Cerebrospinal meningitis-Philadelphia	1	TEXAS	
Chicken pox	730	Chicken pox	36
Diphtheria:		Diphtheria	61
Erie	9	Influenza	14
Philadelphia	49	Measles	2
Deaths.			

Mumps Pellagra Pneumonia Scarlet fever Smallpox Tetanus Tuberculosis Typhold fever Whooping cough  UTAH  Cerebrospinal meningitis—Salt Lake City Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis	Cases 8 2 27 66 7 1 17 111 34 2 108 24 1 29 10	Smallpox: Everett. Tacoma Scattering. Tuberculosis. Typhoid fever. Whooping cough  WEST VIRGINIA  Diphtheria Scarlet fever.  Milwaukee: Chicken pox Diphtheria German measles.	19 25 8 1 33 6 7
Pellagra Pneumonia Scarlet fever Smallpox Tetanus Tuberculosis Typhold fever Whooping cough  UTAH  Cerebrospinal meningitis—Salt Lake City Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Smallpox	2 27 66 7 1 17 11 34 2 108 24 1 29	Tacoma. Scattering. Tuberculosis. Typhoid fever. Whooping cough.  WEST VIRGINIA Diphtheria. Scarlet fever.  WISCONSIN Milwaukee: Chicken pox. Diphtheria.	25 8 1 33 6 7
Pneumonia Scarlet fever. Smallpox Tetanus. Tuberculosis. Typhoid fever. Whooping cough.  UTAH  Cerebrospinal meningitis—Salt Lake City. Chicken pox. Diphtheria. Measles. Mumps. Pneumonia. Scarlet fever. Smallpox.	27 66 7 1 17 11 34 2 108 24 1 29	Scattering Tuberculosis Typhoid fever Whooping cough  WEST VIEGINIA Diphtheria Scarlet fever  WISCONSIN Milwaukee: Chicken pox Diphtheria	25 8 1 33 6 7
Scarlet fever.  Smallpox.  Tetanus.  Tuberculosis.  Typhold fever.  Whooping cough.   UTAH  Cerebrospinal meningitis—Salt Lake City  Chicken pox.  Diphtheria  Measles  Mumps.  Pneumonia  Scarlet fever  Smallpox.	66 7 1 17 11 34 2 108 24 1 29	Tuberculosis Typhoid fever Whooping cough  WEST VIRGINIA Diphtheria Scarlet fever  WISCONSIN Milwaukee: Chicken pox Diphtheria	8 1 33 6 7
Smallpox Tetanus. Tuberculosis Typhoid fever. Whooping cough.  UTAH  Cerebrospinal meningitis—Salt Lake City. Chicken pox Diphtheria. Measles. Mumps Pneumonia. Scarlet fever. Smallpox	7 1 17 11 34 2 108 24 1 29	Typhoid fever  Whooping cough  WEST VIRGINIA  Diphtheria Scarlet fever  WISCONSIN  Milwaukee: Chicken pox Diphtheria	1 33 6 7
Tetanus. Tuberculosis. Typhold fever. Whooping cough.  UTAH  Cerebrospinal meningitis—Salt Lake City Chicken pox Diphtheria Measles Mumps. Pneumonia Scarlet fever Smallpox	1 17 11 34 2 108 24 1 29	Whooping cough  WEST VIRGINIA  Diphtheria Scarlet fever  WISCONSIN  Milwaukee: Chicken pox Diphtheria	6 7
Tuberculosis. Typhoid fever. Whooping cough.  UTAH  Cerebrospinal meningitis—Salt Lake City Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Smallpox	17 11 34 2 108 24 1 29	WEST VIRGINIA  Diphtheria. Scarlet fever.  WISCONSIN  Milwaukee: Chicken pox. Diphtheria.	6 7
Typhoid fever. Whooping cough.  UTAH  Cerebrospinal meningitis—Salt Lake City Chicken pox. Diphtheria Measles Mumps Pneumonia Scarlet fever Smallpox	11 34 2 108 24 1 29	Diphtheria. Scarlet fever.  Milwaukee: Chicken pox. Diphtheria.	167
Whooping cough.  UTAH  Cerebrospinal meningitis—Salt Lake City Chicken pox. Diphtheria Measles Mumps. Pneumonia Scarlet fever Smallpox	2 108 24 1 29	Diphtheria. Scarlet fever.  Milwaukee: Chicken pox. Diphtheria.	167
Cerebrospinal meningitis—Salt Lake City Chicken pox	2 108 24 1 29	Scarlet fever	167
Cerebrospinal meningitis—Salt Lake City Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Smallpox	108 24 1 29	Milwaukee: Chicken pox	167
Cerebrospinal meningitis—Salt Lake City Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Smallpox	108 24 1 29	Milwaukee: Chicken pox Diphtheria	
Chicken pox	108 24 1 29	Chicken pox Diphtheria	
Diphtheria	24 1 29	Diphtheria	
Measles	1 29		
Mumps	29	German measles	17
Pneumonia Scarlet fever Smallpox	-		5
Pneumonia Scarlet fever Smallpox	10	Influenza	1
Scarlet fever		Measles	1
Smallpox	9	Mumps	19
	6	Pneumonia	19
	4	Scarlet fever	33
Typhoid fever	2	Tuberculosis	8
Whooping cough	32	Whooping cough	49
w nooping cough	-	Scattering:	
VERMONT		Chicken pox	158
	89	Diphtheria	19
Chicken pox	2	German measles	3
Diphtheria	_	Influenza	41
Measles	7	Measles	142
Mumps	3	Mumps.	96
Scarlet fever	11	Pneumonia	12
Whooping cough	21	• Poliomyelitis	1
VIRGINIA		Scarlet fever	172
		Smallpox	12
Smallpox	8	Tuberculosis	10
WASHINGTON		Typhoid fever	2
WASHINGTON		Whooping cough	64
Cerebrospinal meningitis:			
Lincoln County	. 1	WYOMING	
Seattle	1	Chicken pox	7
Chicken pox	105	Diphtheria	2
Diphtheria	22	Measles	1
German measles.	3	Mumps	1
Measles	15	Pneumonia	6
Mumps	132	Scarlet fever	6
Pneumonia	1	Smallpox-Albany	2
Scarlet fever	72	Whooping cough	17
Reports for Wee	k Er	ided January 2, 1926	
DISTRICT OF COLUMBIA		NORTH DAKOTA—continued	Sanca.
	ases		86
Chicken pox	19	Scarlet fever	-
Diphtheria	15	Smallpox	4
Influenza	4	Whooping cough	-
Measles	9	SOUTH CAROLINA	
Pneumonia	47	bengue	3
Scarlet fever	. 19	Diphtheria	26
Tuberculosis	17.	Influenza	688
Whooping cough	4	Malaria	68
		Measles	6
Chicken pox	11	Poliomyelitis	1
	5	Scarlet fever	6
Diphtheria German measles	1	Smallpox	5
		Tuberculosis	35
Measles	4	Tunhoid force	15
MumpsPneumonia	11 3	Typhoid fever	40

#### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
May, 1925 Tennessee	2	22	160	69	438	22	1	121	179	100
November, 1925		20			5		8	24	13	3
Hawaii Territory  December, 1925	1	29	3		- 44				1	2
Arizona Connecticut	4	11 185	38	2	787		1 2	49 276	0	15 30

8 9 3

### PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-eradicative measures from the cities named:

Los Angeles, Calif.	
Week ended Dec. 26, 1925:	
Number of rats trapped	2, 120
Number of rats found to be plague infected.	0
Number of squirrels examined	439
Number of squirrels found to be plague infected	0
Number of mice trapped	2, 538
Number of mice found to be plague infected	0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
Date of last human case, Jan. 15, 1925.	

#### Oakland, Calif.

#### (Including other East Bay communities)

(Including other East Day communities)	
Week ended Dec. 26, 1925:	
Number of rats trapped	537
Number of rats found to be plague infected	0
Totals:	
Number of rats trapped Jan. 1 to Dec. 26, 1925	79, 111
Number of rats found to be plague infected	21
Number of squirrels examined May 1 to Aug. 1, 1925	7, 277
Number of squirrels found to be plague infected	0
Number of mice trapped Jan. 1 to Dec. 26, 4925	29, 772
Date of discovery of last plague-infected rat, Mar. 4, 1925.	
Date of last human case, Sept. 10, 1919.	

#### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended December 26, 1925, 36 States reported 1,101 cases of diphtheria. For the week ended December 27, 1924, the same States reported 1,391 cases of this disease. Ninety-seven cities, situated in all parts of the country and having an aggregate population of more than 28,500,000, reported 683 cases of diphtheria for the week ended December 26, 1925. Last year for the corresponding week they reported 812 cases. The estimated expectancy for these cities was 1,300 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 2,816 cases of measles for the week ended December 26, 1925, and 1,099 cases of this disease for the week ended December 27, 1924. Ninety-seven cities reported 2,385 cases of measles for the week this year, and 583 cases last year.

Poliomyelitis.—The health officers of 37 States reported 11 cases of poliomyelitis for the week ended December 26, 1925. The same States reported 36 cases for the week ended December 27, 1924.

Scarlet fever.—Scarlet fever was reported for the week as follows: 36 States—this year, 2,395 cases; last year, 2,762 cases. Ninety-seven cities—this year, 1,153 cases; last year, 1,341 cases; estimated ex-

pectancy, 1,027 cases.

Smallpox.—For the week ended December 26, 1925, 36 States reported 332 cases of smallpox. Last year for the corresponding week they reported 705 cases. Ninety-seven cities reported smallpox for the week as follows: 1925, 89 cases; 1924, 222 cases; estimated expectancy, 57 cases. Four deaths from smallpox were reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—Two hundred and seventy-three cases of typhoid fever were reported for the week ended December 26, 1925, by 35 States. For the corresponding week of 1924, the same States reported 383 cases of this disease. Ninety-seven cities reported 51 cases of typhoid fever for the week this year and 193 cases for the corresponding week last year. The estimated expectancy for these cities was 76 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 91 cities, with a population of nearly 28,000,000, as follows: 1925, 820 deaths; 1924, 910.

### City reports for week ended December 26, 1925

The "estimated expectancy" given for diphtheria, polic myelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1915 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

			Diph	theria	Influ	ienza			
Division, State, and city	July 1, 1923,	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND	1			- 10					
Maine:							11-1		
Portland New Hampshire:	73, 129	1	2	0	0	0	0	2	
Concord	22, 408	0	0	0	0	0	0	1	1
Nashua	29, 234		1	4	0	0	0		1
Vermont: Barre	1 10,008	0	0	0	0	0	0	0	1
Burlington	23, 613	o o	i	ő	ő	Ö	ŏ	ŏ	
Massachusetts:	770, 400	52	65	15	2	1	116	9	2
Boston Fall River	120, 912	1	5	4	2	0	14	0	-
Springfield	144, 227	7	5	0	0	0	1	0	1
Worcester Rhode Island:	191, 927	13	4	5	0	0	160	0	1:
Pawtucket	68, 799	2	3	1	0	0	5	0	1
Providence	242, 378	0	15	2	0	0	247	0	10
Connecticut: Bridgeport	1 143, 555	0	9	5	4	3	78		
Hartford	1.138, 036	4	9	5	0	1	30	0	4
New Haven	172, 967	16	3	0	0	0	8	0	
MIDDLE ATLANTIC									- 1
New York:									
Buffalo New York	536, 718 5, 927, 625	15	31 218	119	19	10	585	14	15
Rochester	317, 867	15	7	5		1	17	0	1
Syracuse	184, 511	7	. 9	5	0	0	4	11	1
New Jersey: Camden	124, 157	12	5		1	1	11	1	
Newark	438, 699	54	19	12	4	0	68	2	10
Trenton	127, 390	3	5	0	1	1	0	. 0	1
Pennsylvania: Philadelphia	1, 922, 788	151	74	50	0	4	56	11	6/
Pittsburgh	613, 442	31	29	10	0	1	13	1	2
Reading	110, 917	15	5	1	0	0	0	, 1	
EAST NORTH CENTRAL								- 97	
Ohio:									11
Cincinnati	406, 312 888, 519	19	16	41	1	2	446	0 3	13
Cleveland Columbus	261, 082	15	8	2	0	2 2 3	10	ő	8
Toledo	268, 338	20	14	7	0	1	19	0	
Indiana: Fort Wayne	93, 573		5					117	
Indianapolis	342, 718	15	16	16	0	0	30	0	10
South Bend	79, 709	3	2	1	0	0	0	0	0
Terre Haute	68, 939	1	3	3	0	0	1	0	1
Chicago	2, 886, 121	107	173	59	11	2	29	4	44
Peoria. Springfield	79, 675	20	2	0	0	0	0	3	
Michigan:	61, 833	7	3	0	1	1	2	2	1
Detroit	1, 155, 000	61	74	53	6	0	249	2 0	33
Flint Grand Rapids	117, 968 145, 947	3 1	12	2	0	0	1	0	1 3

<sup>1</sup> Population Jan. 1, 1920.

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			Diph	theria	Infl	uenza			
Division, State, and city	Population July 1, 1923, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL— continued									
Wisconsin: Madison Milwaukee Racine Superior	42, 519 484, 595 64, 393 1 39, 671	5 120 5 0	2 22 2 1	0 28 5 0	0 0 0 0	0 0 0	1 1 0 0	0 4. 1 0	0 13 0 0
WEST NORTH CENTRAL									
Minnesota: Duluth Minneapolis St. Paul Iowa:	106, 289 409, 125 241, 891	8 45 22	3 21 18	1 16 13	0	0 0 1	0 1 2	0 2 0	3 10 8
Davenport Sioux City Waterloo	61, 262 79, 662 39, <b>667</b>	4	1 3 1	0 0	0 0		0 0 2	0	
Missouri: Kansas City St. Joseph St. Louis North Dakota:	351, 819 78, 232 803, 853	22 1 29	18 4 64	5 0 50	2 0 0	2 0 0	25 1 2	. 1 0 1	8
Fargo. Grank Forks	24, 841 14, 547	6	1 1	0	0	0	0	5	0
South Dakota: Aberdeen Sioux Falls	15, 829 29, 206	0 5	0	0	0		0	10	
Nebraska: Lincoln	58, 761 204, 382	3	2	0 2	0	1	0	1	3
Omaha Kansas: Topeka	52, 555	3 20	6 2 7	1 2	0	0	0	0	11
Wichita	79, 261		'	-	0	0	1	-	•
Delaware:									
Wilmington Maryland:	117, 728	3	. 3	7.	. 0	0	0	0	5
Baltimore Cumberland Frederick	773, 580 32, 361 11, 301	67	31 2 1	10 2 0	10 0 0	3 0	112 0 0	55 0	30 3 0
District of Columbia: Washington	1 437, 571	18	18	8	0	0	7	0	27
Virginia: Lynchburg Norfolk	30, 277 159, 089	16	1 3	0	0		0		3
Richmond	181, 044 55, 502	0 3	9	4 2	0	0 2 0	0	2 2	9
Wheeling	45, 597 1 56, 208	1	2 2	0	0	0	. 0	0	2 8
North Carolina: Raleigh Wilmington	29, 171 35, 719	0	1 0	1 2	0	0	0	0	0
Winston-Salem	56, 230 71, 245	0	1	5	0	1	6	0	3
Columbia Greenville Georgia:	39, 688 25, 789	5	i	0	0	0	0	0	0 2
Atlanta Brunswick Savannah	222, 963 15, 937 89, 448	3 0 2	0 2	6 0	15 0 12	0 0 3	0	0 1 0	8 1 2
Florida: St. Petersburg Tampa	24, 403 56, 050	0	1 2	0	0	0	0	0	

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

			1	theria	Infl	uenza			
Division, State, and city	Population July 1, 1923, estimated	Chiek- en pox, cases re- ported		Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pncu- monia, deaths re- ported
EAST SOUTH CENTRAL									
Kentucky: Covington	57, 877	0	2	0	. 0	0	1	0	
Louisville Tennessee:	257, 671	0	8	3	2	0	5	0	11
Memphis Nashville Alabama:	170, 067 121, 128	3	4	1	0	3 1	16	0	2
Birmingham Mobile Montgomery	195, 901 63, 858 45, 383	0 6 1	4 1 0	3 1 2	1 0	1 1 0	0	0 0 3	1
WEST SOUTH CENTRAL			- /						
Arkansas: Fort Smith Little Rock Louisiana:	30, 635 70, 916	0	2 2	0 2	0		1 0	0	
New Orleans Shreveport	404, 575 54, 590	2 0	13 2	4 2	8	10	1 0	0	7 5
Oklahoma: Oklahoma City Texas:	101, 150	0	2	4	12	0	0	0	3
Dallas Galveston	177, 274 46, 877	8	13	4	0	0	0	0	5
Houston	154, 970 184, 727	0	3	5	0	0	0	0	7
MOUNTAIN									
Montana: Billings Great Falls Helena Missoula	16, 927 27, 787 1 12, 037 1 12, 668	14 7 0 0	0 2 0 0	0 0 0	0 0 0	0 0 0	0 0 0	7 48 0 0	0002
Idaho: Boise	22, 806	0	1	0	0	0	0	0	0
Denver Pueblo New Mexico:	272, 031 43, 519	20	12	3 6	0	3 0	3 0	1 0	16
Albuquerque	16, 648	4	1	1	0	0	0	0	0
Phoenix	33, 899	0		0	0	0	0	0	0
Salt Lake City Nevada: Reno	126, 241	73	2	5	0	0	0	17	3
PACIFIC	12, 429	. "	0	0	0	0	0	. 0	2
Washington:		4	9					-	
Seattle	1 315, 685 104, 573 101, 731	27 21	5 3	2	0		0	17	
Oregon: Portland	273, 621	2	7	18	0	0	0	6	0
Los Angeles Sacramento San Francisco	666, 853 69, 950 539, 038	20 4 22	38 2 24	10 1 15	8 3 7	0 2	4 0 3	1 3	12 5 7

Population Jan. 1, 1920.

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	Scarle	t fever		Smallpe	OX.	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy		re-	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland	2	7	. 0	0	0	0	1	3	0	3	20
New Hampshire:											
Concord	0	0	0	0	0	0	0	0	0	0	10
Nashua Vermont:	1										
Barre	2	0	0	0	0	0	0	0	0	0	8
Burlington	1	2	0	0	0	0	0	0	0	0	8
Massachusetts: Boston	39	46	0	0	0	13	2	1	0	43	214
Fall River	3	2	0	0	0	4	0	0	0	0	37
Springfield	8	9	0	0	0	2	0	0	0	0	35 66
Worcester Rhode Island:	11	13	0	0	0	. 3	0	0	0	12	00
Pawtucket	1	1	0	0	0	0	0	0	0	0	15
Providence	8	7	0	0	0	1	1	0	0	6	64
Connecticut:		11	0	0		1	0	0	0	2	41
Bridgeport Hartlord	6 7	4	0	ő	0	î	ő	ő	Ö	0	15
New Haven	8	0	0	0	0	6	1	0	0	7	43
MIDDLE ATLANTIC											
New York:											
Buffalo	23	24	0	0	0	. 7	1	17	1	15	112
New York	164	108	0	0	0	1 82	12	17	0	52 10	1, 281 76
Rochester	12	7 3	0	ő	0	2	ô	0	ő	25	50
Syracuse New Jersey:											
Camden	3	13	1	0	0	2	1	0	0	15	37 101
Newark Trenton	16	15	0	0	ő	8 3	1	ő	ő	0	31
Pennsylvania:											
Philadelphia	57	61 47	0	0	0	37	4	0	0	23	521 160
Pittsburgh Reading	32	5	ő	Ö	ő	3	i	Ô	0	2	38
EAST NORTH CENTRAL						-					
Ohio:											
Cincinnati	13	15	0	0	0	4	0	0	0	5	125
Cleveland	31 10	31 22	1	6-	0	21	0	0	0	28 10	161 78
Toledo	14	7	1	0	ŏ	i	0	2	ő	1	57
Indiana:											
Fort Wayne	9	9	0	22		10	0	0	0	8	92
Indianapolis South Bend	4	3	i	5	0	0	0	0	o l	2	8
Terre Haute	2	4	1 0	5	0	1	0	0	0	0	21
Illinois: Chicago	115	124	1	0	0	44	6	7	1	12	500
Peoria	6		Ô	3	ő	0	ő	7 0	. 0		500 20 25
Springfield	2	1	0	3	0	1	1	0	0	6 3	25
Michigan:		91		3	0	23	3	1	0	32	259
Detroit	77	91	3 0	0	0	1	0	o l	0	12	13 23
Grand Rapids	8	11	Ö	Ö	Ö	2	i	0	0	25	23
Wisconsin:					. 0			0			
Madison Milwaukee	29	6	0	0	0	0 3	0	0	0	23	76
Racine	5	0	1	0	. 0	1	0	0	0	2	9
Superior	2	2	2	0	0	0	0	0	0	0	
WEST NORTH CENTRAL											
Minnesota:											
Duluth	5	9	1	0	0	1	1	0	0	3	21 79
Minneapolis St. Paul	19	51 32	6	8	0	5	i	0	1	3	63

<sup>&</sup>lt;sup>1</sup> Pulmonary tuberculosis only.

	Scarle	t fever		Smallpo	X	Tuber-	Ty	phold f	ever	re-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	mated	Cases re- ported	Deaths re- ported	eough, cases re-	Deaths, all causes
WEST NORTH CENTRAL—COD.											
Iowa:	1	2	0	0			0	0		0	
Davenport Sioux City	2	1	0	2			0	0		Ö	
Waterloo Missouri;	3	5	0	0			0	0			
Kansas City	11	13	1	0	0	8	1	1	1	3 0	89
St. Joseph St. Louis	31	87	0	0	0	7	0 2	0	0	4	22 227
North Dakota:											
Fargo	2	1	0	0	0	0	0	0	0	3	5
Grand Forks South Dakota:	1		0								
Aberdeen	1	0	0	0			0	0		0	
Sioux Falls Nebraska:	2	2	0	0			0	0		0	
Lincoln Omaha	6	3 9	0	8	0	1 2	0	0	0	0	15 51
Kansas: Topeka Wichita	1 3	1 3	0	0	0	1 0	0	0	0	0	12 26
SOUTH ATLANTIC					- 3						
Delaware: Wilmington Maryland:	3	2	0	0	0	2	1	0	0	0	23
Baltimore	23	26	0	0	0	16	4	1	0	17	204
Cumberland Frederick	0	0	0	0	0	0	0	1 0	0	0	18
District of Colum- bia:											
Washington	21	18	0	0	0	11	4	1	0	- 10	164
Virginia: Lynchburg	0	4.	0				0				
Norfolk	2	4 7	0	0	0	0 2	0	0	0	0	54
Richmond	6	ó	0	0	0	ő	i	0	0	Ô	12
West Virginia: Charleston											- 00
Wheeling North Carolina:	1 2	8	0	0	0	1	0	0	0	1 2	23 17
Raleigh	1	3	0	0	0	1	0	0	0	0	15
Wilmington Winston-Salem	0	41	0	0 2	0	0	0	0	0	8	8 15
South Carolina:		100			1.0					100	
Charleston	1 0	0	0	0	0	3	0	0	0	0	26
Greenville	0	Ô	î	ĭ	Ö	ĭ	0	ő	0	O.	12
Georgia: Atlanta	4	5	1	2	0	2	1	3	0	0	59
Brunswick	0	0	0	ő	0	0	0	0	0	0	3
Savannah	1	1	0	0	0	1	1	0	0	0	37
Florida: St. Petersburg	0	0	0	0	0	0	1	0	0	0	13
Tampa	ĭ		Ö	•••••	•••••		0				
TRAL											
Kentucky: Covington	2	3	0	0	0	0	0	0	0	0	6
Louisville	4	0	0	0	0	6	1	0	0	ő	96
Tennessee:				0	0	6	0		0	0	53
Memphis Nashville	2 2	21	0	0	0	2	0	0	0	0	30
Alabama:											50
Birmingbam Mobile	1	4	0	0	0	3	0	0	0	1 0	16
Montgomery	î	Ö	1	Ö	0	Ö	Ö	0	0	Ö	

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	Scarle	t fever		Smallpo	)K	Tuber-	Ty	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy		Deaths re- ported	culo- sis, deaths re-	mated		re-	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL											
Arkansas:											
Fort Smith	1	0	1	0			0	0		0	
Little Rock	2	2	1	0			0	0		0	
Louisiana:			0								
New Orleans	5	5	1	0	0	13	3	1 0	0	1 0	153
Shreveport								0	0		2
Oklahoma City	2	2	0	0	0	0	0	0	0	0	111
Texas:	•	-	-			1		1			
Dallas	3	11	0	0	0	1	1	1	0	10	40
Galveston	1	0	0	0	0	1	0	0	0	0	27
Houston	2		0				0				47
San Antonio	1	0	0	0	0	4	0	0	0	0	47
MOUNTAIN											
Montana:											
Billings Great Falls	1	8	0	0	0	0	0	1	1	2 7	7
Great Falls	1	1	0	0	0	Ö	1	0	0	7	3
Helena	1	0	0	0	0	0	0	0	0	0	8
Missoula	0	1	0	0	0	1	0	0	0	0	
daho: Boise	1		0	1	0	0	0	0	0	1	
Colorado:	-			•							
Denver	10	8	5	0	0	5	0	0	0	29	62
Pueblo	3	2	0	0	. 0	0	0	0	0	0	7
New Mexico:										-	
Albuquerque	0	3	0	0	0	3	0	0	0	7	10
Arizona: Phoenix		3			0	13		0	0	0	24
Utah:	*****	0	******			10		0			24
Salt Lake City.	4	3	2	0	0	0	0	1	0	5	31
Nevada:	- 1		-	-		-	-	-			-
Reno	1	0	0	0	0	0	0	0	0	0	8
PACIFIC					1						
Washington:	- 1										
Seattle	7	18	2	2			0	0		2	
Spokane	5	27	4	2			0	o l		0	
Tacoma	2		i				0				
Oregon:								,			
Portland	7	19	6	4	0	1	0	0	0	0	
California:				-							100
Los Angeles	18	8	2 1	28	4	14	3	2	1	6	183 19
Sacra Into	12	8	il	0	0	11	2	1	0	0	43

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City reports for week ended December 26, 1925-Continued

	Cereb	rospina! ingitis	Let	hargie phalitis	Pe	llagra	Polion	yelitis paraly	(infan-
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAND									
Massachusetts: Boston	0	0	1	2	0	0	0	0	(
MIDDLE ATLANTIC									
New York:									
Buffalo	0	0	0 5	. 0	0	0	0	2 0	
Pennsylvania:		1			U		1		
Philadelphia	0	. 0	3	1	1	1	0	0	
Pittsburgh	0	0	0	0	0	0	0	1	
EAST NORTH CENTRAL									
Ohio:									
Columbus	1	1	0	0	0	0	0	0	0
Detroit	0	0	1	1	0	0	0	.0	0
WEST NORTH CENTRAL				1					-
Missouri:					-			-	
Kansas City	0	0		0	0	0	0	0	1
St. Louis	1	1	0	0	0	0	0	0	0
SOUTH ATLANTIC									
District of Columbia:								,	
Washington	0	0	0	0	1	1	0		. 0
North Carolina: Winston-Salem	0	0	0	0	1	1	0	0	0
South Carolina:									
Charleston	0	0	0	0	0	1	0	0	0
Greenville	0	0	0	0	U	1	0	0	. 0
Atlanta	0	0	0	0	0	1	0	0	0
Savannah	0	0	0	0	0	1	0	0	0
EAST SOUTH CENTRAL									
Alabama:	1111	14							
Birmingham	0	1	0	0	0	0	0	0	.0
WEST SOUTH CENTRAL			-						
Louisiana:		27.0				- 1			
New Orleans	0	0	0	0	1	1	0	0	0
Oklahoma:									
Oklahoma City Texas:	0	0	0	0	0	1	0	0	0
Dallas.	0	0	0	0	0	1	0	0	0
MOUNTAIN		1					100		
Utah:		100		-	1		-		
Salt Lake City	1	2	0	0	0	0	0	0	0
PACIFIC	12 1	534		175				PILE !	
Oregon:					1				
Portland	1	0	0	0	0	0	0	0	0
Camornia;	0				0	0		0	
San Francisco	0	1	0	0	0	0	0	0	0

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The following table gives the rates per 100,000 population for 103 cities for the 10-week period ended December 26, 1925. The population figures used in computing the rates were estimated as of July 1, 1923, as this is the latest date for which estimates are available.

The 103 cities reporting cases had an estimated aggregate population of nearly 29,000,000, and the 96 cities reporting deaths had more than 28,000,000 population. The number of cities included in each group and the aggregate populations are shown in a separate table below:

Summary of weekly reports from cities, October 18 to December 26, 1925-Annual rates per 100,000 population 1

#### DIPHTHERIA CASE RATES

					Week e	ended-				
	Oct. 24	Oct. 31	Nov.	Nov. 14	Nov.	Nov. 28	Dec.	Dec. 12	Dec. 19	Dec. 26
103 cities	1 168	3 182	166	174	181	159	171	164	163	* 125
New England Middle Atlantic East North Central	6 97 129 189	137 149 195	97 126 187	127 141 194	- 144 143 180	104 150 162	124 137 172	107 139 166	137 147 161	92 106 7 156
West North Central South Atlantic East South Central	259 268 109	282 228 97	267 211 137	240 252 69	226 289 132	178 221 120	280 221 126	243 205 132	180 205 97	10 100 80
West South Central Mountain Pacific	102 372 142	264 176 157	199 286 148	213 248 145	176 315 186	181 134 165	278 239 128	185 172 200	4 253 181 186	11 97 171 12 80

#### MEASLES CASE RATES

103 cities	2 93	1 105	154	174	229	212	353	441	4 531	\$ 436
New England	6 599	604	852	937	1, 130	827	1, 583	2, 025	2, 159	1, 637
Middle Atlantic	87	110	159	171	256	239	339	453	520	384
East North Central	47	57	74	88	103	124	255	307	563	7 571
West North Central	10	12	15	88 10	15	31	19	25	37	8 71
South Atlantic	9 40	59	154	232	289	353	552	576	609	10 265
East South Central	40	17	17	17	51	34	40	23	86	126
West South Central	14	5	9	9	9	5	5		4 10	11 11
Mountain	29	3 20	. 38	47	29	10	10	38	29	25
Pacific	12	15	17	20	32	26	58	55	81	11 34

#### SCARLET FEVER CASE RATES

103 cities	1 132	3 160	170	191	175	205	220	231	4 240	\$ 21
New England	* 130	201	271	246	209	214	224	194	199	26
Middle Atlantic	96	106	111	142	144	149	166	173	190	146
East North Central	142	194	167	189	196	220	273	302	300	7 246
West North Central	296	305	384	400	421	454	433	493	471	9 450
South Atlantic	134	193	185	172	123	144	127	162	164	10 160
East South Central	132	. 80	109	183	137	183	177	120	126	180
West South Central	42	42	102	121	93	139	111	148	4 93	11 100
Mountain	115	1 195	172	181	162	172	248	162	286	219
Pacific	133	148	162	206	197	249	226	194	258	12 197

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New Mide East West Sout East West Pacif

Midd East 1 West South East S West ! Moun Pacific

9 New E Middle East N West N South East Sc West S Mount

<sup>&</sup>lt;sup>1</sup> The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1923.

<sup>1</sup> Two cities not included.

<sup>3</sup> Helena, Mont., not included.

<sup>4</sup> Shreveport, La., not included.

<sup>5</sup> Fort Wayne, Ind., Grand Forks, N. Dak., Lynchburg, Va., Tampa, Fla., Houston, Tex., and Tacoma. Wash., not included.

<sup>6</sup> Barre, Vt., not included.

<sup>7</sup> Fort Wayne, Ind., not included.

<sup>8</sup> Grand Forks, N. Dak., not included.

<sup>9</sup> Winston-Salem, N. C., not included.

<sup>9</sup> Winston-Salem, N. C., not included.

<sup>10</sup> Lynchburg, Va., and Tampa, Fla., not included.

<sup>11</sup> Houston, Tex., not included.

<sup>12</sup> Tacoma, Wash., not included.

Pacific. 1 Hele

<sup>4</sup> Shre # Fort Wash.,

Barr Fort

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Summary of weekly reports from cities, October 18 to December 26, 1925—Annual rates per 100,000 population—Continued

#### SMALLPOX CASE RATES

					Week	ended-				
	Oct. 24	Oet. 31	Nov.	Nov. 14	Nov.	Nov. 28	Dec.	Dec. 12	Dec. 19	Dec. 26
103 cities	17	1 10	10	8	17	16	13	21	4 21	* 16
New England	67	0	0	0	0	0	0	0	0	(
New England Middle Atlantic East North Central	0	17	12	13	32	32	14	34	27	, 2
West North Central	4	27	12	4	17	10	19	19	37	1 2
South Atlantic	.0	6	12	6	21	2	4	8	12	10 11
East South Central	6	6	29	34	11	11	11	6	11	
West South Central	0	0	0	0	0	9	14	9	1 24	ne
Mountain Pacific	10 78	1 10 46	19 49	19 44	19 78	10 99	110	105 131	38 119	n 114
	TYP	HOID	FEVE	R CAS	E RAT	res				-
103 cities	2 33	1 26	28	12	17	14	20	20	4 16	8 6
N V 1	4.17	19	- 00	-	32		- 00	- 00	10	10
New England	6 15 25	17 21	22 12	2 8	20	17 14	22 26	22 25	10 17	10
Middle Atlantic East North Central	9	16	19	9	3	4	8	12	14	77
West North Central	33	19	31	17	15	8	10	12	15	14
South Atlantic. East South Central.	9 78	27	64	10	31	29	21	25	18	30 13
East South Central	160	109	183	46	34	23	57	29	29	
West South Central	83	83	51	60	32	32	42	32	4 29	11 11
Mountain	67	1 88	38	10	19	19	0	19	10	19
Pacific	32	20	9	3	6	15	15	15	17	11 9
	IN	FLUEN	NZA D	EATH	RATE	es				
96 cities	18	* 11	13	12	8	9	12	13	114	å 13
New England	42	12	5	7	2	12	10	10	15	12
Middle Atlantic	8	10	14	14	6	8	10	12	8	9
East North Central	9	7	12	10	6	5	7	12	18	78
West North Central	7	11	7	13	2	2	7	7	4	7
South Atlantic	12	6	18	2	14	10	18	8	10	10 19
East South Central	20	29	40	29	46	29 36	46	51 46	4 38	34 11 60
West South Central	38	8 10	15	31	10	10	41 19	19	0	29
Pacific	4	12 4	15	4	19	4	4	4	19	12 16
	PNI	EUMO	NIA D	EATH	RATI	28	'			
96 cities	196	1 122	141	138	151	130	149	134	153	* 140
	4.00					201	100			
New England	6 87	112	139	137	144	161	186	137	164	171
Middle AtlanticEast North Central	104	137	153 125	144	160 146	145	161 149	132	148	7 105
West North Central	63	119	88	137 83	103	83	55	85	136	101
South Atlantic	124	134	207	102	156	144	170	185	213	10 221
East South Central	132	114	166	177	240	194	143	200	234	154
West South Central	117	138	163	122	163	158	163	219	4 194	11 174
Mountain	115	8 78	105	181	229	162	162	181	124	210
Pacific	79	13 53	95	114	91	102	102	79	102	11 98

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<sup>&</sup>lt;sup>1</sup> Two cities not included.

<sup>3</sup> Helena, Mont., not included.

<sup>4</sup> Shreveport, La., not included.

<sup>5</sup> Fort Wayne, Ind., Grand Forks, N. Dak., Lynchburg, Va., Tampa, Fla., Houston, Tex., and Tacoma, Wash., not included.

<sup>6</sup> Barre, Vt., not included.

<sup>7</sup> Fort Wayne, Ind., not included.

<sup>8</sup> Grand Forks, N. Dak., not included.

<sup>8</sup> Winston-Salem, N. C., not included.

<sup>9</sup> Lynchburg, Va, and Tampa, Fla., not included.

<sup>10</sup> Lynchburg, Va, not included.

<sup>11</sup> Houston, Tex., not included.

<sup>12</sup> Tacoma, Wash., not included.

Number of cities included in summary of weekly reports and aggregate population of cities in each group, estimated as of July 1, 1923

Group of cities	Number of cities reporting cases	Number of cities reporting deaths	Aggregate population of cities reporting cases	Aggregate population of cities reporting deaths
Total	103	96	28, 977, 311	28, 321, 626
New England. Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. Mountain Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9	2, 098, 746 10, 304, 114 7, 135, 899 2, 515, 330 2, 542, 498 911, 885 1, 124, 564 546, 445 1, 797, 830	2, 098, 746 10, 304, 114 7, 135, 899 2, 381, 454 2, 542, 496 911, 895 1, 023, 013 546, 445 1, 377, 572

Port Hon-Suez Alex Port Mon Zanz Mass Djibi Lour Durt East Port Cape Port Seych

# FOREIGN AND INSULAR

#### THE FAR EAST

Report for week ended December 12, 1925.—The following report for the week ended December 12, 1925, was transmitted by the far eastern bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	gue	Che	olera	Sma	llpox
Port	Cases	Deaths	Cases	Deaths	Cases	Death
lambar.		1		0	7	
fadras		Ô		13	6	1
		1		0	2	
angoon		0		0	ō	
arachi		0		0	Ö	
egapatam		0	0	0		
'olombo	0				1 5	
asra	0	0	0	0	9	
ingapore	0	0	0	0	0	
ort Swettenham	0	0	0	0	0	
enang	0	0	0	0	0	
atavia	0	0	0	0	0	
oerabaya	0	0	0	0	1	
amarang.	0	0	0	0	0	
elawan Deli	0	0	0	0	0	
edang (Sumatra)	ő	0	ő	ŏ	Ö	
	0	0	0	0	0	
abang (Rhio)	3	2	0	0	0	
lacassar		2			0	
ontianak (Borneo)	0	0	0	0	0	
andakan (North Borneo)	0	0	0	0	0	
uching (Sarawak)	0	0	0	0	1	
Ianila	0	0	0	0	0	
angkok	0	0	93	62	0	
aigon and Cholon	0	0	0	0	0	
	0	0	ő	0	0	
ongkong		. 0	0	ő		1
hanghai	0			0		
moy	0	0	0		0	
agasaki	0	0	0	0	0	1
okohama	0	0	0	0	0	1
monoseki	0	0	0	0	0	
loji	0	0	0	0	0	
obe	0	0	0	0	0	
	0	0	0	0	0	
saka	0	0	0	0	Ö	
eelung			0	ő	0	
usan	0	0		0		
airen	0	0	0		-1	
delaide	0	0	0	0	0	
risbane	0	0	0	0	0	
remantle	0	0	0	0	0	
elbourne	0	0	0	0	0	
ydney	0	0	0	0	0	
ockhampton	0	0	0	0	0	
ownsville	Ö	ő	0	0	0	
ort Doewin	0	0	Ö	ŏ	0	
ort Darwin		0	0	0	0	
roome	0					
ort Moresby	0	0	0	0	0	
onolulu	0	0	0	0	0	
ICZ	0	0	0	0	0	
exandria	0	0	0	0	0	
ort Said	0	0	0	0	0	
ombassa (Kenya)	0	0	0	0	0	
anzibar	Ö	Ö	0	0	0	
assowah	0	0	ő	ő	0	
jibuti	0	0	ő	0	0	
	0	0	0	0	ő	100
ourenco-Marques				0	0	
urban	0	0	0			
ast London	0	0	0	0	0	
ort Elizabeth	0	0	0	0	0	
ane Town	0	0	0	0	0	
ort Louis (Mauritius)	7	6	0	0	0	
eychelles	0	0	0	0	0	

#### CUBA

Malaria—Santiago.—During the period November 29 to December 19, 1925, 119 cases of malaria with 7 deaths were reported at Santiago de Cuba. Under date of December 22, 1925, 197 cases of malaria were reported present.

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#### **ECUADOR**

Plague—Guayaquil—December 1-15, 1925.—During the period December 1 to 15, 1925, five cases of plague with two deaths were reported at Guayaquil, Ecuador. During the same period, of 11,958 rats taken at Guayaquil, 71 were found plague infected.

#### MADAGASCAR

Plague—September 16-30, 1925.—During the period September 16 to 30, 1925, 46 cases of plague with 43 deaths were reported in the island of Madagascar. Of these the urban occurrence was reported as follows: Miarinarivo, Province of Itasy, 3 cases (bubonic, 2; pneumonic, 1); Tananarive, 2 cases, 1 bubonic and 1 septicemic; Tamatave (port), 3 cases (bubonic).

October 1-31, 1925.—During the month of October, 1925, 177 cases of plague with 161 deaths were reported in the island of Madagascar. The urban occurrence was reported as follows: Miarinarivo, Province of Itasy, cases 17, deaths 17 (bubonic, pneumonic, and septicemic); Tananarive, cases 7, deaths 6 (bubonic, pneumonic, and septicemic). For distribution according to Provinces, see page 109.

#### MALTA

Communicable diseases—November, 1925.—During the month of November, 1925, communicable diseases were notified in the island of Malta as follows:

Disease	Cases	Direase	Cases
Broncho-pneumonia	3 10 11 2 52	Mensles Pneumonia Poliomyelitis Smallpox. Typhoid fever	16

Population, civil (estimated), 223,088.

#### MAURITIUS

Plague—September, 1925.—During the month of September, 1925, a fatal case of plague was reported in the island of Mauritius.

#### UNION OF SOUTH AFRICA

Plague—Typhus fever—October, 1925.—Plague and typhus fever have been reported in the Union of South Africa as follows: Plague—Cape Province, week ended November 21, 1925, one case occurring in a native on a farm in the Steynsburg District. Typhus fever—Month of October, 1925, 88 cases with 7 deaths occurring among the colored population and 7 cases in the European population. For distribution of occurrence according to locality see pages 109, 110.

#### CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

# Reports Received During Week Ended January 15, 1926 1

#### CHOLERA

Place	Date	Cases	Deaths	Remarks
India: Calcutta	Nov. 15-21	22	- 22	
Madras	Nov. 22-28.	1	1	100000000000000000000000000000000000000
Philippine Islands:	1404. 22-20			
Manila	Nov. 9-22	4	3	
Province-		-		
Bulacan	Oct. 18-Nov. 7	92	64	As currently reported; subject
Pampanga	Nov. 1-7.	1	1	to later correction.
Rizal	Sept. 27-Oct. 24	70	21	Do.
Siam:				
Bangkok	Nov. 8-14.	23	17	1 100

#### PLAGUE

Ceylon	Nov. 15-21	2	2	
China:	N 15 D 5			Danielant
Nanking	Nov. 15-Dec. 5			Prevalent.
Ecuador: Guayaquil	Dec. 1-15	5	2	Rats taken, 11,958; found in- fected, 71.
India:	1 1 1 1 1 1 1 1 1		45.0	100004, 111
Madras Presidency	Oct. 25-31	42	25	
Java:				
Batavia	Nov. 14-20	107	100	Province.
Soerabaya	Oct. 25-Nov. 7	9		Sept. 16-30, 1925; Cases, 46;
Madagascar			***********	deaths, 43.
Fort Dauphin Province	Sept. 16-30	2	1	Bubonic.
Itasy Province	do	3	3	Bubonic, 2; pneumonic, 1. At Miarinarivo.
Moramanga Province	do	1	1	Bubonic.
Tamatave (port)	do	3	2	Do.
Madagascar				October, 1925; Cases, 177; deaths.
				161. Bubonic, pneumonic, and septicemic.
Fort Dauphin	Oct. 1-15	3	1	septicemic.
Itasy Province	Oct. 1-31	17	17	At Miarinarivo.
Mofamanga Province	do	16	16	
Tamatave (port)	Oct. 16-31	4	4	
Tananarive Province	Oct. 1-31	137	123	
Mauritius				September, 1925: One fatal case.
Union of South Africa:				
Cape Province— Steynsburg District	Nov. 15-21	1		Native. On farm.
Stey harding District	1404. 10-21			Atderte, On mail.

<sup>&</sup>lt;sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources.

# CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received During Week Ended January 15, 1926—Continued SMALLPOX

Place	Date	Cases	Deaths	Remarks
Arabla: Aden	Nov. 29-Dec. 5	1		Imported.
Rio de Janeiro British South Africa:	Nov. 15-28	63	32	
Southern Rhodesia Canada: Alberta—	Nov. 13-19	1		Native.
Calgary	Dec. 13-19	1		From Drumheller, vicinity of Calgary.
China: Amoy	Oct. 25-Nov. 21			Present.
Antung Chungking Manchuria	Dec. 7-13 Nov. 15-21	1		Do.
An-shan	Dec. 6-12 Oct. 26-Nov. 15	1 2	3	
Mukden Tieh-ling Nanking	dodo	1 2		Do.
Shanghai	Nov. 15-21 Nov. 22-Dec. 5	2	1	Prevalent.
Great Britain: England and Wales Hull	Nov. 15-Dec. 12 Dec. 6-12	432		
India:		4		
Calcutta	Nov. 15–21 do Nov. 22–28	9	5	
Japan: Taiwan	Nov. 11-20	.1		
Malta Mexico:	Nov., 1925	14		
Aguascalientes	Dec. 20-26	~~~~~	68	
Teheran Portugal: Lisbon	July 23-Aug. 23 Nov. 16-Dec. 6		31	

#### TYPHUS FEVER

China: Antung Mexico: Guadalajara Mexico City	Nov. 29-Dec. 6 Dec. 22-28 Dec. 6-12	12	1	Including municipalities in Federal district.
Palestine: Safad Tel-Aviv Union of South Africa	Nov. 24-30do	1		October, 1925: Cases, 88; deaths, 7 (colored); cases, 7 (European
Cape Province	************			population). Oct. 1-31, 1925: Cases, 63; deaths, 5 (colored). Oct. 1-31, 1925: One case (col-
Orange Free State	*****************	•		ored). Oct. 1-31, 1925: Cases, 23; 1 death (colored). Oct. 1-31, 1925: One case, 1 death.

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Greece A P India K R I Java: B C P S S T Mada

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# CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received from December 26, 1925, to January 8, 1926 1 CHOLERA

Place	Date	Cases	Deaths	Remarks
India				Oct. 18-31, 1925; Cases, 3,027, deaths, 1,785.
G-144a	Non 1.14	36	25	deaths, 1,785.
Calcutta	Nov. 1-14 Nov. 15-21	2	20	
Rangoon	Nov. 8-14	2	2 2	
Japan	Aug. 30-Sept. 10	121		
Russia	May-June	7		
Siam:			-	T-1-11
Bangkok	Oet. 4-31	60	30	Infection stated to have been imported on vessel.
On vessel:	Nov. 1-7	25	31	
Steamship ——	Oct. 3	9		Arrived at Bangkok, Siam; 9 cases in coolie passengers.
	PLA	GUE		FI
Brazil:				
Bahia	Nov. 8-14	2		
Santos	Dec. 8-21		2	
Equador:				D. C. L. L
Guayaquil	Nov. 1-30	10	6	Rats taken, November, 1925; 24,618; rats found infected, 143.
Powert				Z4,018; rats found infected, 143.
Egypt		******	********	Cases 137 Corresponding no
				January 1-November 18, 1925; Cases, 137. Corresponding period, 1924: Cases, 380.
Beni Suef	Nov. 18, 1925	1	1	
Greece:				
Athens	Nov. 1-30	18	4	Including Piraeus.
Patras	Nav. 13	1	*******	Oct 18 21 1007 C 0 101
India				Oct. 18-31, 1925; Cases, 2,584; deaths, 1,696.
Karachi	Nov. 1-14.	3	2	(1000) 1,000.
Rangoon.	Nov. 1-14 Oct. 25-Nov. 14	9	3	
Java:				
Batavia	Oct. 24-Nov. 6	94	89	Province.
Cheribon	Sept. 27-Oct. 17		166	
Pekalongan	Oct. 11-24	*******	42	
SoerabayaTegal	Sept. 27-Oct. 17	13	13	
Madagascar:	delie al-oct II			
Province—				1
Tananarive	Sept. 16-28	37	36	
Town—				
Tananarive	do	2 5	2	
Mauritius Island	Sept. 20-Oct. 17	67	5	
Russia Senegal	May-June September, 1925	22	12	
Siam	Aug. 23-Sept. 5	23	20	
Syria:				
Beirut	Nov. 11-20,	1	********	and the second second
La L	SMAL	LPOX		
Argentina:				E A IN FIELD
Rosario	October, 1925	,	1	
Brazil: Rio de Janeiro	Nov. 1-14	71	40	
Canada:	Nov. 1-14.,	"	90	
Manitoba-				
Winnipeg	Dec. 13-19	2		
New Brunswick—	Louis relies	-		
Northumberland	Dec. 6-13	1		
Ontario				
China:	Dec. 6-12	2		
Foochow	Nov. 1-14			Becomt
Hankow	Nov. 1-14 Nov. 14-21	3	********	Present.
Manchuria-	NUV. 19-21	0		
Dairen	Oct. 19-25	3	1	
Shanghai	Oct. 19-25 Oct. 25-Nov. 14 Nov. 1-7	4	3	
Tientsin France	Nov. 1-7	1		

<sup>&</sup>lt;sup>1</sup> From medical afficers of the Public Health Service, American consuls, and other sources. For reports received from June 27 to Dec. 25, 1925, see Public Health Reports for Dec. 25, 1925. The tables of quarantinable diseases are terminated semiannually and new tables begun.

# CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received from December 26, 1925, to January 8, 1926—Continued

SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Great Britain:				
England— Hull	Nov. 29-Dec. 5	. 2		1
Newcastle-on-Tyne	do	1 7		1
Sheffield	Nov. 22-28	5		1
Greece	1101. 22 20			Oct. 1-31, 1925: Cases, 16.
Athens	Nov. 1-30	17	1	
India				Oct. 18-31, 1925: Cases, 2,300
Bombay	Nov. 8-14	. 5	3	deaths, 530.
Calcutta	do	1		
Karachi	Nov. 1-21	23		
Madras	Nov. 15-21 Oct. 25-31	1	1	(86)
Rangoon	Oct. 25-31	1		Sept. 6-19, 1925: Cases, 41; deaths
IraqBagdad	Nov. 1-14	4	4	24.
Italy	NOV. I IT			Aug. 2-Sept. 30, 1925: Cases, 26.
Rome	Oct. 12-25	1		Itag. 2 Doper doj zozor o zozo, zor
Java:	1	1 -		
Batavia	Oct. 24-30	-1		,
Kraksaan	Oct. 11-17	11		
Malang	do	2		
North Bantam	Oct. 4-17	4		1
Probolingo	Oct. 11-17	1		
South Bantam	do	1	********	
Soerabaya	Oct. 11-24	158	18	
Tegal	Oct. 4-10	9	1	Telly Assent 1005; Deaths 005
Mexico	Dec. 13-19			July-August, 1925: Deaths, 905.
Mexico City	Nov. 28-Dec. 5	i		
Torreon	Nov. 1-30		15	
Peru:	1404.1 00.1111111		10	,
Arequipa	Oct. 1-31		1	
Portugal:			_	
Lisbon	Oct. 4-31	124		
Do	Nov. 14-28	70		
Oporto	Nov. 22-Dec. 5	1	2	
Russia				May-June, 1925: Cases, 1,336 July 12-Sept. 5, 1925: Cases, 21
Siam				July 12-Sept. 5, 1925: Cases, 21
2-1-				deaths, 6.
Spain: Malaga	Nov. 29-Dec. 5		2	
Switzerland	Nov. 29-Dec. 5	******	2	June 28-Oct. 24, 1925: Cases, 36.
Lucerne	Oct. 1-31	6		Julie 25 Oce. 24, 1820. Cabes, 60.
Tunisia:	000.1 01			
Tunis	Nov. 21-30	2		
	TYPHUS	FEVE	-	
			HC.	
land.			R	1
Algeria:	October, 1925	2	R	
AlgiersArgentina:		2		
Algiers Argentina: Rosario	October, 1925 Oct. 1-31			
Algiers Argentina: Rosario	Oct. 1-31	2		
Algiers Argentina: Rosario Egypt: Port Said	Oct. 1-31 Nov. 19-25	2		October 100% October
Algiers Argentina: Rosario Spypt: Port Said Pinland	Oct. 1-31	2		October, 1925: One case.
Algiers Argentina: Rosario  Sgypt: Port Said Finland	Oct. 1-31 Nov. 19-25	2 1 1		October, 1925: One case.
Algiers Argentina: Rosario Spypt: Port Said Finland Athens Athens	Oct. 1-31	2 1 1	2	October, 1925: One case.
Algiers Argentina: Rosario Seppt: Port Said Floand Greece: Athens	Oct. 1-31 Nov. 19-25	2 1 1		
Algiers Argentina: Rosario Seppt: Port Said Floand Greece: Athens	Oct. 1-31	2 1 1		
Algiers Argentina: Rosario Sypt: Port Said Finland Athens Athens Athuania	Oct. 1-31	2 1 1		September, 1925: Cases, 8; deaths, 1.
Algiers Argentina: Rosario Sypt: Port Said Finland Firecce: Athens atvia dithuania Mexico	Oct. 1-31	2 1 1	2	
Algiers Argentina: Rosario Seypt: Port Said Finland Athens Athens Athuania dexico Aguascalientes Guadalajara	Oct. 1-31	2 1 1 11 2		September, 1925: Cases, 8; deaths
Algiers Argentina: Rosario gypt: Port Said Finland Athens Athens Athunia Mexico Aguascalientes	Nov. 1-30	1 1 2 11 2	2	September, 1925: Cases, 8; deaths
Algiers Argentina: Rosario Sypt: Port Said Finland Athens Athens Atvia Aithuania Mexico Aguascalientes Guadalajara Mexico City Torreon	Oct. 1-31	2 1 1 11 2	2	September, 1925: Cases, 8; deaths
Algiers Argentina: Rosario Sypt: Port Said Finland Freece: Athens Athens Atwia Aguascalientes Guadalajara Mexico City Torreon. Palestine:	Oct. 1-31	11 11 2 11 27 27	2	September, 1925: Cases, 8; deaths
Algiers Argentina: Rosario gypt: Port Said Finland Freece: Athens Atvia Aithuania Mexico Aguascalientes Guadalajara Mexico City Torreon Palestine: Nazareth	Nov. 1-30	2 1 1 11 2	2	September, 1925: Cases, 8; deaths
Algiers Argentina: Rosario Sgypt: Port Said Finland Athens Athens Atvia Lithuania Mexico Aguascalientes Guadalajara Mexico City Torreon Palestine: Narareth Foru: Narareth	Oct. 1-31	11 11 2 11 27 27	2	September, 1925: Cases, 8; deaths
Algiers Argentina: Rosario Egypt: Port Said Finland Greece: Athens Latvia Lithuania Mexico Aguascalientes Guadalajara Mexico City Torreon Palestine: Nazareth Peru: Arequipa	Oct. 1-31	11 11 2 11 27 27	2	September, 1925: Cases, 8; deaths, 1.
Algiers Argentina: Rosario Egypt: Port Said Finland Finland Athens Atvia Lithuania Mexico Aguascalientes Guadalajara Mexico City Torreon Palestine: Nazareth Peru: Arequipa Poland:	Oct. 1-31	11 27 27 1	1 1 2	September, 1925: Cases, 8; deaths, 1.
Algiers Argentina: Rosario Egypt: Port Said Finland Greece: Athens Latvia Lithuania Mexico Aguascalientes Guadalajara Mexico City Torreon Palestine: Nazareth Peru: Arequipa Poland: Warsaw	Oct. 1-31	11 11 2 11 27 27	2	September, 1925: Cases, 8; deaths, 1. July-August, 1925; deaths, 65.
Algiers Argentina: Rosario Spypt: Port Said Finland Greece: Athens Atvia Lithuania Mexico Aguascalientes Guadalajara Mexico City Torreon Palestine: Nazareth Peru: Arequipa Poland: Warsaw Rumania	Oct. 1-31	11 27 27 1	1 1 2	September, 1925: Cases, 8; deaths, 1. July-August, 1925; deaths, 65.  July, 1925: Cases, 74; deaths, 9.
Algiers Argentina: Rosario Egypt: Port Said Finland Greece: Athens Latvia Lithuania  Mexico Aguascalientes Guadalajara Mexico City Torreon Palestine: Narareth Peru: Arequipa Poland: Warsaw Russia Russia	Oct. 1-31	11 27 27 1	1 1 2	September, 1925: Cases, 8; deaths, 1. July-August, 1925; deaths, 65.
Argentina:  Rosario  Port Said  Finland  Greece:  Athens  Latvia  Lithuania  Mexico  Aguascalientes  Guadalajara  Mexico City  Torreon  Palestine:  Narareth  Peru:  Arequipa  Poland:	Oct. 1-31	11 27 27 1	1 1 2	September, 1925: Cases, 8; deaths, 1. July-August, 1925; deaths, 65.  July, 1925: Cases, 74; deaths, 9.

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